SOL LYNN/INDUSTRIAL
TRANSFORMER FEDERAL
SUPERFUND SITE
REMEDIAL ACTION
FINAL REPORT

VOLUME I

Submitted to:

Texas Natural Resource Conservation Commission Pollution Cleanup Division

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SOL LYNN/INDUSTRIAL TRANSFORMER FEDERAL SUPERFUND SITE REMEDIAL ACTION FINAL REPORT

Prepared for:

Texas Natural Resource Conservation Commission
Pollution Cleanup Division
Superfund Engineering Section
12100 Park 35 Circle

Prepared by:

Radian International 9801 Westheimer, Suite 500 Houston, Texas 77042



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LIST OF ACRONYMS

CQC Contractor Quality Control

EPA Environmental Protection Agency

ESD Exploration of Significant Difference

FGB First Gibraltar Bank

GWRA Groundwater Remedial Action

HDPE High Density Polyethylene

HEE Huntingdon Engineering and Environmental, Inc.

IDL Instrument Detection Limit

ITS Sol Lynn/Industrial Transformer Federal Superfund Site

IT International Technologies

OSHA Occupational Safety and Health Administration

O&M Operations and Maintenance Manual

ppb parts per billion

PID Photoionization Detector

PCBs Polychlorinated Biphenyls

PRP Potentially Responsible Party

PLC Programmable Logic Controller

PM Project Manager

PQL Practical Quanatation Limit

QAO Quality Assurance Officer

QA/QC Quality Assurance/Quality Control Plan

QAM Quality Assurance Manager



LIST OF ACRONYMS (Continued)

Radian Radian International

RA Remedial Action

RAF Remedial Action Final Report

ROD Record of Decision

RI Remedial Investigation

RD Remedial Design

RE Resident Engineer

SSO Site Safety Officer

TNRCC Texas Natural Resource Conservation Commission

TWC Texas Water Commission

TCE Trichloroethylene

USGS United States Geological Survey

WRS WRS Infrastructure Environment, Inc.



1.0 INTRODUCTION

This Remedial Action Final Report (RAF) describes the activities conducted as part of the 1998 Construction Phase of the Remedial Action (RA) performed at the Sol Lynn/Industrial Transformer Superfund (ITS) site. Radian performed oversight for this work under Contract No. 2800000009 (Contract Amendment 8) with the TNRCC. Work under this contract is comprised of the modification and expansion of the groundwater remediation system and pipe replacement activities for the Texas Natural Resource Conservation Commission (TNRCC). WRS Infrastructure Environment, Inc. (Contractor) performed the 1998 Construction Phase Work under Contract No. 98-80050100 with TNRCC under the oversight of Radian (Engineer).

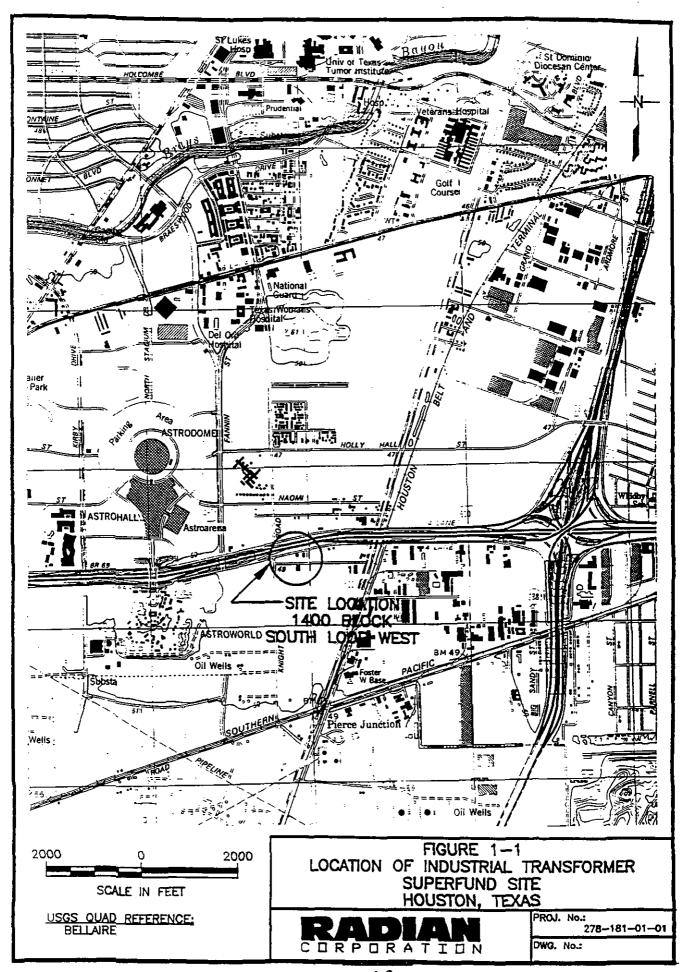
The ITS site is located within the city limits of Houston (Figure 1-1). The site is bounded by Knight Street on the west, Mansard Street to the south, South David Street to the east, and the east-bound feeder road for IH-610 (South Loop) to the north (Figure 1-2). The Astrodome and Astroworld entertainment complexes are located about 1 mile to the northwest and west of the site.

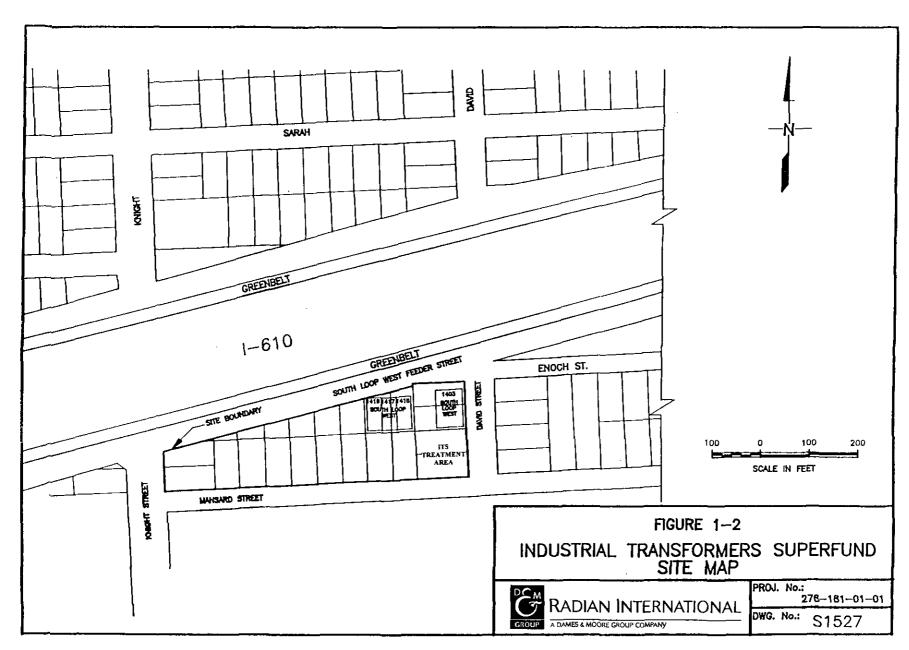
This report is organized as follows:

- Section 1 of this report provides a history of actions performed at the ITS site and details the scope of the 1998 Construction Phase;
- Section 2 provides details of the activities performed during the 1998 Construction Phase;
- Section 3 details inspection activities performed prior to completion of the 1998 Construction Phase activities; and
- Section 4 provides recommendations for further actions to be performed at the site.

1.1 Summary of ROD

The Record of Decision (ROD) for the ITS Site, Phase II (Operable Unit II), was signed on 23 September 1988 and addressed issues related to site groundwater only. In general, the ROD specifies that groundwater remediation will be conducted by pump and treat technology. The ROD identifies the selected remedial action for the groundwater operable unit (Operable Unit II), which includes the following major components:





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- Approximately 12 million gallons of groundwater containing TCE at concentrations above the primary drinking water standard for TCE, will be extracted and treated using air stripping;
- A vapor phase activated carbon unit will be used to treat the air stripper exhaust if the exhaust does not meet Texas Air Quality Criteria for atmospheric discharge; and
- Treated groundwater will be disposed in a sanitary sewer or pumped back into a subsurface waterbearing zone.

Operable Unit I work (soil remediation) was handled by Gulf States Utilities under an administrative order from the EPA, as discussed in Section 1.3.

1.2 Explanation of Significant Differences

The TNRCC or the USEPA must publish an explanation of significant differences when a remedial or enforcement action, settlement, or consent decree significantly changes but does not fundamentally alter the remedy selected in the ROD with respect to scope, performance, or cost.

As of the date of this report, no explanation of significant differences has been published for the ITS site. However, during the development of the design for the Sol Lynn groundwater Remedial Action in 1992, a number of "non-significant" changes to the specific provisions of the ROD became necessary. An explanation of the "non-significant" changes were documented in a memorandum from Glenn Celerier (EPA Region V) dated October 27, 1992. These "non-significant" changes included the following: (1) a liquid-phase carbon adsorption polishing unit was added to the groundwater treatment system; (2) the estimated amount of contaminated groundwater requiring treatment and pumping was increased to 175 million gallons; (3) a vapor-phase carbon adsorption unit was added to treat the air stripper emissions prior to discharge to the atmosphere; and (4) discharge of treated groundwater to a storm sewer was determined to be acceptable. EPA judged that the remedy incorporating these four changes remains protective of human health and the environment and complies with federal and state requirements that were identified in the ROD.



1.3 Background Information

The ITS company, located at 1415, 1417, and 1419 South Loop West in Houston, Texas, was owned and operated by Mr. Sol Lynn in the early 1970's. In the fall of 1971, City of Houston personnel noted that employees at the site were pouring oil out of transformers onto the ground while dismantling transformers. In 1980, a representative of the TNRCC (formerly TWC) observed old drums and an oily discharge from a drum storage area behind Sila-King, Inc., a chemical supply company operating at 1419 South Loop West. Later sampling showed that trichloroethylene (TCE) was present in soils and water at the site. In November of 1981, City of Houston Department of Health representatives observed approximately 75 empty, punctured drums labeled TCE scattered across Mr. Lynn's property. These drums disappeared from the site between 16 and 29 March 1982.

Radian International (Radian) conducted Phase I and Phase II Remedial Investigations (RIs) at the ITS site in 1987 and 1988. The RI field sampling revealed the presence of polychlorinated biphenyls (PCBs) in the shallow soil and halogenated volatile organics, such as TCE, in the soil and groundwater. The site was divided into two operable units. Operable Unit I addressed PCB remediation in soil and was the responsibility of Gulf States Utilities, as the Potentially Responsible Party (PRP), and ENSR as the Consultant/Contractor. Operable Unit II addressed TCE remediation in groundwater and the TNRCC was the lead agency with Radian as the Consultant/Contractor. Gulf States Utilities remediated Operable Unit I, per the Record of Decision (ROD) under an Administrative Order from the EPA.

Based upon the results of the Phase I and Phase II RIs, Radian conducted a Feasibility Study (FS) for remediation of groundwater contamination. The FS, which addressed TCE contamination in the 40-foot and 80-foot aquifers, was submitted to the TNRCC in late 1988.

Radian was awarded the Remedial Design (RD) contract for groundwater contamination in late 1989. In March 1990, First Gibralter Bank (FGB) conducted an environmental assessment of a small tract of property located within the 1400 block of South Loop West. In the resulting report prepared by Groundwater Technology, Inc., the 20-foot aquifer was shown to have TCE contamination. The TNRCC and Environmental Protection Agency (EPA) decided to defer investigation of this aquifer until the Groundwater Remedial Action phase. In November 1990, Radian initiated the field sampling portion of the RD. The RD was developed for the 40-foot and the 80-foot aquifers. Prior to developing a detailed design, an investigation was conducted using MOC (the USGS model-Method of Characteristics) to assist in design of the



groundwater extraction system. The final report which documents the modeling effort was submitted to the TNRCC and the EPA in July 1991. Upon completion of the investigation and the computer simulations, detailed design specifications were developed for the extraction system for the 40-foot aquifer and 80-foot aquifers, including performance specifications for the groundwater treatment system. The package was submitted to the TNRCC in June 1992.

Radian was awarded the Remedial Action (RA) oversight contract in August 1992. As part of the RA, Radian investigated the 20-foot aquifer identified by Groundwater Technology in 1990. The Radian investigation of this aquifer involved cone penetrometer tests, installation and sampling of four monitoring wells screened in the 20-foot aquifer, pump tests, and water level measurements. The final investigation report was submitted to the TNRCC and EPA in January 1993. The report stated that there were high concentrations of dissolved TCE in the 20-foot aquifer.

Groundwater modeling was conducted by Radian as part of the RA oversight contract to support development of the remedial design for the 20-foot aquifer and to optimize design for the other aquifers. The USGS Modular Three-Dimensional Finite-Difference Groundwater Flow Model (MODFLOW) was used to optimize placement of extraction and recharge wells. Results from pump tests conducted on the 20-foot aquifer allowed calculation of aquifer yield characteristics which were used as input to the groundwater model. The Final Silty Zone Modeling Report for the 20-foot aquifer was submitted to the TNRCC on 11 April 1994.

In August 1992, the TNRCC awarded Southwestern Laboratories, Inc., (SWL) a contract for the installation, start-up and operation of a groundwater recovery, treatment, and recharge system. SWL was subsequently purchased by Huntington Engineering and Environmental, Inc., (HHE) which was later purchased by Maxim Technologies, Inc., (Maxim). The Notice to Proceed was issued by TNRCC on 9 November 1992 and SWL's work, referred to as the 1993 Construction Phase, began on 4 February 1993.

The 1993 Construction Phase work began before the Groundwater Investigation for the 20-foot aquifer was complete. Therefore, the number and location of the 20-foot aquifer recovery and recharge wells required in the bid documents were established using the available



information and with the expectation that changes may be needed during the work. The original scope of work consisted of the installation and startup of a groundwater recovery, treatment, and recharge system. The groundwater recovery system included the following:

- Three extraction wells screened in the 20-foot aquifer;
- Two recharge wells screened in 20-foot aquifer,
- Six extraction wells screened in the 40-foot aquifer;
- Three recharge wells screened in the 40-foot aquifer; and
- One extraction well screened in the 80-foot aguifer.

Results of the Silty Zone Investigation and Groundwater Modeling report included recommendations to change the design locations of some of the recovery wells. The report recommended the addition of nine (net) wells and pumping of the aquifer in two phases. During Phase I, groundwater was to be extracted from 10 wells screened in the 20-foot aquifer and from one recovery well screened in the 80-foot aquifer. The following scenario was recommended for Phase II:

- Two 20-foot aquifer recharge wells would be activated;
- Five of the 20-foot aquifer recovery wells would be converted to groundwater recharge wells;
- Groundwater recovery would be initiated form the six 40-foot aquifer wells;
- Groundwater recharge would be initiated from the seven 40-foot aquifer recharge wells; and
- Groundwater recovery would continue from the 80-foot aquifer well.

The reason for this two-phase groundwater recovery approach was to remove as much contamination as practicable directly from the 20-foot aquifer before initiating pumping from the 40-foot aquifer which would tend to "smear" contamination in the stratigraphic units separating the 20 and 40-foot zones. The duration of Phase I was influenced by the desire to increase the volume of TCE removed directly from the 20-foot aquifer and the need to minimize movement of the 40-foot aquifer plume out of the range of the groundwater extraction system.



Phase I of groundwater treatment was initiated on 8 October 1993 and extended until 11 October 1994. During Phase I, groundwater was extracted from 10 wells screened in the 20-foot aquifer and one well screened in the 80-foot aquifer. The treated water was discharged on-site and not used to recharge the aquifer.

Phase II of Groundwater Treatment was initiated on 12 October 1994 and extended until September 1998. Phase II involved the following operational scenario:

- Groundwater extraction from 40-foot aquifer extraction wells SE-1 through SE-6;
- Groundwater extraction from the 20-foot aquifer wells SZE-1 through SZE-5 and 80-foot aquifer well IE-1;
- Treated water recharge into the subsurface via 20-foot aquifer recharge wells SZER-1 through SZER-5, and SZR-1 and SZR-2, and via 40-foot aquifer recharge wells SR-1 through SR-7; and
- Surface discharge of any treated water not recharged into the aquifers.

On 14 October 1996, the groundwater recovery and treatment system was shut down after a leak in the extraction piping was discovered. A study was initiated by Radian to determine the cause and evaluate potential solutions.

Radian obtained two samples of the carbon steel pipe that had failed by corrosion at the Sol Lynn/Industrial Transformer Superfund site. The samples were tested and analyzed to determine the following:

- The extent of corrosion;
- Whether the corrosion occurred from the exterior or the interior:
- The cause of the corrosion;
- An estimate of the future performance of the carbon steel pipe; and
- Potential mitigation measures.



The evaluation revealed the following conclusions:

- The NPS 1-inch pipe failed by pitting corrosion from the interior. In addition to the pit that perforated the pipe wall, the mean depth of ten other large pits on the pipe interior was 44 mils. Preferential corrosion of the longitudinal seam weld of the pipe had penetrated approximately one-third of the pipe wall thickness. There was no evidence of metallurgical defect to account for the preferential weld corrosion.
- The exterior of the NPS 1-inch pipe was also deeply pitted, though not as severely as the interior. The deepest observed pit was 40 mils, and the mean of the 10 deepest pits observed was 26 mils.
- Pitting was not as profuse on the NPS 2 ½-inch pipe, but the deepest interior pit was 50 mils. Pitting on the exterior took the form of shallow, irregular paths approximately 10 mils deep.
- The corrosion on the interior is consistent with pitting of carbon steel by aerated waters. The corrosion on the exterior of the pipe is consistent with corrosion by condensation and moisture film.
- Because the more sever corrosion is from the interior, there does not appear to be any practical way to retard additional corrosion of the existing pipe. Based on the available information, additional perforations could occur at unpredictable locations within the gathering system at any time.

While the system was shut-down because of the extraction piping leak, Maxim and the TNRCC mutually agreed to terminate their contract for the operation of the groundwater recovery and treatment system in early 1997. Issues pertaining to the contract termination, included the following:

- The fact that the treatment system remained shut-down due to leaks in the extraction piping;
- The inability of Maxim and the TNRCC to arrive at an agreement on the scope and costs associated with temporarily mothballing the system;
- The rejection by the TNRCC of Maxim's claim for an upward adjustment of the unit price for carbon although the quantity of carbon increased; and,

The failure of Maxim to repair damage caused by an acid spill in a timely manner.



Groundwater monitoring and analysis during Phase II of Groundwater Treatment, described in Section 1.3, revealed that the Groundwater Extraction System was operating efficiently throughout most of the site. However, the quantity of TCE removed was somewhat less than predicted in the Remedial Design due to site hydrogeology (aquifer yield) and operational problems with the system. Modifications to the groundwater recovery system were recommended to increase the volume of water removed and increase the radius of the Capture Zone. These modifications would be included in the work referred to as the 1998 Construction Phase.



1.4 Description of 1998 Construction Phase

In March 1998, Radian performed a field exploration to delineate the contaminated plume and select the proper location for monitoring wells. During the March 1998 field exploration, a deep shallow aquifer (60-foot aquifer), approximately 60 feet below the ground surface, was discovered at the north side of the Interstate Highway (IH) 610. The groundwater in the aquifer revealed the concentration of TCE is higher than the action level. The possibility of potential hydraulic connection between the 40-foot and 60-foot aquifers was raised. As a result, three monitoring wells for the 60-foot aquifer at the north side of IH 610 were installed. These modifications were included in the work referred to as the 1998 Construction Phase Work.

The failure analysis conducted by Radian, described in Section 1.3, recommended replacing the carbon steel pipe with High Density Polyethylene Pipe (HDPE). These piping modifications would also be included in the work referred to as the 1998 Construction Phase Work.

TNRCC commissioned Radian to prepare contract documents (plans and specifications) for the 1998 Construction Phase work, the subject of this report. The contract was let and the bids were opened on 13 April 1998. The Pre-construction meeting was held on 13 August 1998, and on-site work began the week of 10 September 1998. Work on the 1998 Construction Phase was substantially complete on 24 December 1998.

1.5 Original Construction Scope of Work – 1998 Construction Phase

The 1998 Construction Phase consisted of the repair, modification and expansion of the existing groundwater recovery system. Plan and Specifications for the 1998 Construction Phase were submitted to the TNRCC in January 1998 in the *Bid Package for Groundwater Remedial Design* (Radian, 1998). The scope of work included:

- Mobilization of necessary personnel, equipment, and materials to the site and construction of temporary facilities and utilities;
- Site preparation as necessary to perform the work;
- Modification of the groundwater extraction system, including:
 - -- Conversion of five (5) existing silty zone (20-foot aquifer) extraction/recharge wells (SZER) to extraction service only;



- -- Installation of four (4) new silty zone (20-foot aquifer) extraction wells;
- -- Installation of one (1) new shallow aquifer (40-foot aquifer) extraction well;
- -- Installation of three (3) new deep-shallow (60-foot aquifer) monitoring wells;
- -- Installation of eight (8) new shallow (40-foot aquifer) monitoring wells;
- -- Removal, decontamination and disposal of existing extraction piping and vaults;
- -- Installation of buried, dual containment High Density Polyethylene (HDPE) piping to convey extracted groundwater to the treatment plant;
- -- Conversion of underground electrical control boxes to above ground service; and
- -- Installation of electrical power distribution system, and instrumentation and controls.
- Start-up of the installed groundwater recovery system and 7 consecutive days of operation to demonstrate system operability; and,
- Demobilization of construction equipment and facilities.

1.6 Change Orders

The scope of work for the 1998 Construction Phase was revised on eight occasions during this project. This section summarizes the seven change orders which document these changes in scope.

1.6.1 Change Order Number 1

WRS proposed to substitute 304 stainless steel for the schedule 40, 316 stainless steel specified in the Contract documents for the 10-inch surface casing material. The engineer contacted three vendors to obtain costs for schedule 40, 316 stainless steel pipe and schedule 10, 304 stainless steel pipe. The quoted material costs for 20-foot sections of schedule 40, 316 stainless steel pipe ranged from \$67.00 to \$71.00 per foot. The quoted material costs for 20-foot sections of schedule 10,304 stainless steel pipe ranged from \$20.70 to \$23.45 per foot. The Engineer estimated the fair and reasonable credit for the proposed substitution to be \$46.30 per



foot of pipe. The change order was issued on 24 September 1998 and provided a credit in the amount of \$5,556.00. The change order did not impact schedule.

1.6.2 Change Order Number 2

Change Order Number 2 allowed for the substitution of the nine specified submersible pumps with nine Grundfos Model 5S03-9 Teflon-fitted pumps. The substituted pumps were supplied with 460-Volt, 3-Phase motors. This change order also directed WRS to provide nine additional simplex pump control panels as a substitution for damaged panels which were specified for relocation and reuse. Panel deterioration occurred because the panels were located below ground and in constant contact with the water that filled the vaults. The change order was issued on 21 October 1998 in the amount of \$7,824.58. The change order did not impact the schedule.

1.6.3 Change Order Number 3

Change Order Number 3 allowed for the excavation of potential PCB-contaminated soils for laboratory analysis. The sampling event took place on 29 and 30 October 1998. The change order was issued on 30 October 1998 in the amount of \$802.54. The change order did not adversely impact schedule.



1.6.4 Change Order Number 4

Change Order Number 4 provided for an increase in vault pad dimensions to accommodate a larger diameter piping. The specified surface area of the vault pad was 1,296 square inches (36-inches by 36-inches). Due to an increase in pipe diameter, the HDPE vault pad was increased to 2,916 square inches (54-inches by 54-inches). The thickness of all concrete vault pads remained the same (9-inches). The Engineer found the cost is reasonable. The change order was issued on 1 November 1998 in the amount of \$3,738.54. The change order did not impact the schedule.

1.6.5 Change Order Number 5

Change Order Number 5 allowed for the extension of the Contract Time for Substantial Completion. This extension increased the Contract Time from 126 to 146 days. The change order was issued on 12 November 1998 and provided a net increase of 20 days. The change order did not impact contract price.

1.6.6 Change Order Number 6

Change Order Number 6 provided for the repair of the saw cut in the asphaltic cement concrete driveway behind Affordable Communications Inc. and a re-cut of the pavement at the location of the existing pipe crossing. The Engineer found the cost is reasonable. The change order was issued on 18 November 1998 in the amount of \$460.09. The change order did not impact schedule.

1.6.7 Change Order Number 7

Change Order Number 7 provided for all additional costs associated with replacement of 12 additional vaults. TNRCC agrees with the contractor that additional costs associated with vault replacements are out-of-cope services. The Engineer found the cost is reasonable. The Change Order was issued 17 February 1999 in the amount of \$34,550.27. The Change Order increased the schedule by 30 days.

1.6.8 Change Order Number 8

Change Order Number 8 provided for the reprogramming of the Programmable Logic Controller (PLC) to make it display the correct pumping rate. The Engineer found the cost is reasonable. The change order was issued on 3 March 1999 in the amount of \$1,400.00. The change order did not impact schedule.



1.7 Certificate of Substantial Completion

Specification Section 01780, Part 1.4-A.3 (Closeout Procedures, Final Completion) requires the Contractor to certify that the work specified in the original construction scope of work, as modified by Change Orders 1 through 8, was completed in accordance with Contract Documents. Sections 3.1 and 3.2 describe WRS's efforts to achieve Substantial Completion. The 1998 Construction Phase was determined to be substantially complete on 24 December 1998. Final Completion is pending the corrected program for the PLC submittal, electrical submittals, and subsequent review and approval by the Engineer.



2.0 DESCRIPTION OF ACTIVITIES

2.1 Chronology of Remedial Activities

Site work for the 1998 Construction Phase work began on 10 September 1998 and continued until 24 December 1998. The chronology of the major construction activities are shown in Table 2-1.

2.2 Work Plan

No Work Plan submittal was required for this project.

2.3 Safety Plan

WRS submitted a Health and Safety Plan 28 July 1998 that described WRS's proposed health and safety guidelines and procedures that would be followed during ITS site activities. This plan was reviewed and accepted by the TNRCC and Radian on 19 September 1998. A description of the implementation of this plan in the field follows.

Each morning during the Construction Phase, the WRS Site Safety Officer (SSO) conducted a tailgate safety meeting with all workers doing work at the ITS site. The workers were alerted to hazards that they would possibly encounter on site such as overhead power lines, tripping hazards, and buried utilities. The SSO also instructed the workers to wear proper safety equipment while on site such as hard hats, safety glasses, and steel-toed boots. At the conclusion of the meetings, those in attendance signed a safety meeting log sheet. If a contractor or one of the contractor's workers arrived on site after the daily safety meeting, the WRS SSO alerted the worker individually upon arrival about safety concerns and the worker signed the safety log. Copies of the safety log sheets are available in WRS's Houston Office. During the site work the WRS SSO was responsible for enforcing the Health and Safety Plan requirements.

There were no significant accidents or injuries resulting from site work. If such an event had occurred, an accident report would have been completed and included in the project files.



Table 2-1. Chronology of Remedial Activities

	0.1.1.1000
Contract Execution	9 July 1998
Mobilization	8 September 1998
Set-up Temp Facilities	8 September 1998
Begin Drilling Wells	9 September 1998
Installation of 3-foot gate and Project Sign .	10 September 1998
Begin Existing Collection Piping/Vault Removal	16 September 1998
Begin Pipe Installation	2 October 1998
Begin Vault Installation	12 October 1998
Complete Drilling Wells	13 October 1998
Begin Hydrostatic Testing (Dual Containment and Leak	14 October 1998
Detection Pipe)	
End Existing Collection Pipe/Vault Removal	23 October 1998
End Pipe Installation	27 October 1998
End Vault Installation	29 October 1998
Begin Site Restoration	5 November 1998
Begin Placing Pumps into Wells	7 November 1998
Begin Internal Vault Connections	7 November 1998
Finish Placing Pumps into Wells	8 November 1998
End Internal Vault Connections	9 November 1998
End Hydrostatic Testing (Dual Containment and Leak	10 November 1998
Detection Pipe)	
Begin 7-day Test Period (Beginning of Successful Test)	17 December 1998
Demobilization	9 December 1998
End 7-day Test Period (Ending of Successful Test)	24 December 1998



2.4 Remedial Action Cost Summary

This section presents a financial summary of the Construction Phase of the project since activity began. Table 2-2 shows the monthly cost beginning July 1998 and extending through April 1999. In March 1999, WRS invoiced the TNRCC for the first time.

Radian's expenses total \$281,329.00 through April 1994, and WRS expenses total \$377,463.25 for the same time period. Radian has incurred expenses related to system operation, sampling and oversight beyond the original budget in accordance with requests by TNRCC.

2.5 Non-Construction Issues

Under the RA contract, the Engineer performed "non-construction phase" activities such as pre-bid activities and submittals review. Other non-construction activities consisted mainly of project administration duties. Project administration entails budget tracking, ensuring proper cost allocation among tasks, and financial analysis and reporting by task for the monthly progress reports.

2.6 Summary of QA/QC Activities

2.6.1 QA Roles

The Contractor, WRS, had a Quality Assurance Manager (QAM) and a Quality Assurance Officer (QAO) who worked on site during the 1998 Construction Phase. The roles of the QAM and QAO are discussed in the approved Contractor Quality Control (CQC) Plan submitted by WRS on 28 July 1998. This plan was reviewed by the Engineer and accepted on 31 July 1998 without exceptions.

2.6.2 Resident Engineer QA Activities

The Radian Resident Engineer (RE) was on site during all construction activities for the ITS site. The RE observed the Contractor's work progress and recorded all observations in a bound field log book. Each entry was made in ink with the date and time of the entry. The RE also entered observations of the daily site weather conditions, deliveries to and from the site, visitor arrival and departures, and subcontractor activities. The RE made observations to confirm that the Contractor built or installed piping, wells, and appurtenances in conformance



Table 2-2. 1998 Construction Phase Cost Summary

Bid			Bid	Unit		Actual	Earned
Item	Item Description	Unit	Qty	Price	Bid Value	Qty_	Value
1	Insurance, Surety, & Permits	LS	1	\$6,325.00	\$6,325.00	1	\$6,325.00
2	Mobilization & Site Services	LS	1	\$11,325.00	\$11,325.00	1	\$11,325.00
3	Implementation Of Health & Safety Plan	WD	65	\$168.00	\$10,920.00	55	\$9,240.00
4	Implementation Of Cqc Plan	WD	65	\$149.00	\$9,685.00	55	\$8,195.00
5	Txdot Approved Traffic Control Plan	WD	20	\$390.00	\$7,800.00	15	\$5,850.00
6	Shallow Aquifer Monitoring Wells	LF	240	\$112.00	\$26,880.00	250.5	\$28,056.00
7	Deep Shallow Aquifer Surface Casing	LF	180	\$248.50	\$44,730.00	150	\$37,275.00
8	Deep Shallow Aquifer Monitoring Wells	LF	210	\$97.00	\$20,370.00	195	\$18,915.00
9	Silty Zone Extraction Wells	EA	4	\$12,660.00	\$50,640.00	4	\$50,640.00
10	Conversion Of Silty Zone Extraction Well	EA	5	\$8,790.00	\$43,950.00	5	\$43,950.00
11	Removal Of Existing Collection Piping	LF	1100	\$10.30	\$11,330.00	1069	\$11,010.70
12	Install Dual Containment Piping	LF	1400	\$30.40	\$42,560.00	1292	\$39,276.80
13	Install Power Distribution System	LS	1	\$97,500.00	\$97,500.00	1	\$97,500.00
14	Project Specific Health & Safety Plan	LS	1	\$985.00	\$985.00	1	\$985.00
15	Project Specific Cqc Plan	LS	1	\$1,650.00	\$1,650.00	1	\$1,650.00
CO#1	Surface Casing Change Order	LS	l	(\$5,556.00	(\$5,556.00)	1	(\$5,556.00)
CO#2	Pump & Control Panel Change Order	LS	1	\$7,824.58	\$7,824.58	1	\$7,824.58
CO#3	Pcb Sampling Change Order	LS	1	\$802.54	\$802.54	1	\$802.54
CO#4	Vault Completion Change Order	LS	1	\$3,738.54	\$3,738.54	1	\$3,738.54
CO#5	Contract Time Extension	n/a	n/a	n/a	n/a	n/a	n/a
CO#6	Asphalt Repair Change Order	LS	1	\$460.09	\$460.09	1	\$460.09
CO#7	Vault Replacement Change Order	LS	1	\$34,550.27	\$34,550.27	1	\$34,550.27
	GRAND TOTAL INCLUDING CHA	S	\$428,470.02		\$412,013.52		



with the approved Plans and Specifications. If the RE noticed a nonconforming item, the RE notified the Project Manager (PM) in the Radian Houston office who in turn was responsible for notifying the TNRCC Project Manager. Depending on the magnitude of the nonconformance problem, the PM either discussed the matter with the Contractor's Project Manager or the Site Superintendent. For small nonconformance issues, the RE went directly to the Contractor's Site Superintendent to resolve problems. Issues that could not be resolved by the above procedures were discussed at the weekly progress meetings held on site.



3.0 Pre-Final Inspections (GC and CFS)

The Contract Documents require the Contractor to submit a Notice of Substantial Completion to the Engineer in accordance with the Contract Specifications. The Contractor is also required to submit a list of items to be completed or corrected as an attachment to the written notice (punch list). After the Engineer performs an inspection and approves the Substantial Completion (subject to a successful 7-day test), the Engineer conducts a 7-day test to confirm that the system is operating properly in accordance with the Contract Specifications. This section documents the inspection program and correspondence between the Engineer and Contractor.

3.1 Punch List of Corrective Actions

WRS submitted two Notices of Substantial Completions to Radian. The first notice was submitted on 20 November 1998 and the second was submitted on 9 December 1998. Neither Notice of Substantial Completion contained a list of items to be completed or corrected prior to the final inspection.

3.2 Inspection Report on Corrective Actions (Narrative Summary)

On 20 November 1998, WRS submitted a Notification of Substantial Completion to Radian stating that the 1998 Construction Phase work would be substantially complete as of that date. Radian inspected the site on 24 November 1998. Present at the Inspections were representatives of TNRCC, USEPA, Radian and WRS. A letter was issued from Radian to WRS on 25 November 1998. The letter described the deficiencies preventing start-up of the 7 day test. The letter stated that the following items required completion before the 7-day test could be initiated:

- Wiring the autodialer;
- Rewiring the alarm panels;
- Correcting various problems with the PLC, wiring and controls;
- Sealing of the tees for the electrical wiring in the vaults;
- Grounding of the well casings with the appropriate clamps; and
- Delivering a spare flow meter.



The letter also stated that additional items must be implemented prior to final completion:

- Installation of all of the required legend plates on each of the electrical panels;
- Debris removal and general policing of the site to remove trash;
- Submittal of as-built drawings to include all site improvements, each alarm panel, the main alarm panel, and the flow meter panel; and
- Submittal of the PLC and Operator Interface programs.

WRS made various adjustments to the electrical system over the next several days and verbally indicated that the work was substantially complete. Following these adjustments, Radian sent a letter to WRS on 1 December 1998. This letter indicated that Radian would initiate the 7-day test at that time. Radian indicated that the following items would still need to be implemented prior to final completion and that additional items may still be identified.

- Installation of all of the required legend plates on each of the electrical panels;
- Debris removal and general policing of the site to remove trash;
- Submittal of as-built drawings to include all site improvements, each alarm panel, the main alarm panel, and the flow meter panel;
- Submittal of the PLC and Operator Interface programs; and
- Delivering a spare flow meter.

Radian conducted an inspection of the treatment system's electrical system on 4 December 1998. On 4 December 1998 Radian sent WRS a letter indicating the following deficiencies:

- A meter at SZER-1 and a pump at SZER-4 appeared to be malfunctioning;
- The pump in SZER-1 (installed by WRS) pumped water but the flow was not being displayed on the panel in the MCC Building; and
- The pump in SZER-4 (installed by WRS) had stopped pumping water in both the manual and automatic positions. Additionally, flow was not being displayed on the MCC Building Control Panel.



On the same day Radian sent 2 letters to WRS stating that there were problems with the programming of the PLC and that the system had failed to meet the specification requirements for the 7-day test due to pump and meter malfunctions. This letter stated that once these deficiencies were remedied, WRS must submit another Notice of Substantial Completion after which Radian would initiate the 7-day test.

WRS submitted the Notice of Substantial Completion to Radian on 9 December 1998. Radian sent a letter to WRS on 10 December 1998 stating that the 7-day test could begin that morning.

Radian performed various inspections during the 7-day test period including examination of the vault, periodic inspection of the flow panels, inspection of the leak detection system, testing of the recovery system, and electrical system inspection. During the inspections, Radian determined that wells SZE-4 and SZER-1 were not cycling properly and therefore the 7-day test had failed. Radian verbally informed WRS that the startup had failed on 15 December 1998.

The final startup occurred on 17 December 1998 after WRS had addressed the above mentioned problems. Radian issued letters to WRS on 18 December 1998 and 21 December 1998 regarding errors in survey data and installation of casing material that did not meet specifications. In addition, Radian requested a cost proposal for upgrading the PLC program. The issues were added to the final punch list for the site. Substantial completion certification in accordance with Section 01780 of the specifications was granted on 24 December 1998. The punch list for final completion included:

- Establish grass in bare areas;
- Provide submittal for proposed changes to vault/lid to solve leaking vault lid problem;
- Correct leaking vault lid problem;
- Provide cost proposal for modifying the PLC program to average the flow every three seconds;
- Install modified PLC program;



- Replace PVC monitor well casing section with stainless steel; and,
- Provide the submittals required by the Contract documents.

At the time of this report, three items remain to be completed to achieve final completion. The items are as follows:

- Install modified PLC program;
- Provide remaining electrical submittals; and
- Remove remaining concrete debris from the site.

3.3 Final Inspection Report

The contractor is currently addressing the items described in Section 3.2.A final inspection has not been conducted as of the date of this draft report. Documentation of the final inspection will be provided to TNRCC once it is completed.



4.0 RECOMMENDED POST CONSTRUCTION SERVICES

The groundwater treatment system will be operated to manage the plume while the site is evaluated by the TNRCC and USEPA. Recommendations for plume management to be performed at the ITS site are provided in three categories under the current system: Treatment Plant Operation Parameters; Site Maintenance/Operation; and Future Considerations of Plume Management.

4.1 Treatment Plant Operation Procedures and Parameters

The parameters to be monitored for Treatment Plant Operation are presented in Table 4-1.

The Operational Procedures for the system consist of:

- Normal Operation Procedures;
- Shutdown Procedures:
- Emergency Procedures;
- Preventive Maintenance Procedures:
- Troubleshooting/Repair; and
- Scheduled Maintenance Activities.

A detailed list of operational procedures is presented in Appendix G.

4.2 Site Monitoring

The tasks to be performed for site monitoring are presented in Table 4-2. Table 4-3 lists the parameters to be measured for the groundwater monitoring events.

4.3 Recommended System, Changes and Improvements

Potential changes and improvements to keep the system operational have been identified. They include the following:

Replacement of the corroded air duct. The existing sheet-metal air duct between the air stripper and the vapor phase carbon beds has corroded to the extent that perforations have developed. A temporary patch has been installed. Radian has recommended replacing the air duct with 16-inch diameter HDPE pipe.



Table 4-1. Treatment Plant Operation Monitoring Parameters

System Component	Operation Parameter	Operating Range	
Entire System	System Flow Rate	60 gpm	
Untreated Water Storage Tank	Low Level Switch	2,000 gallons	
	High Level Switch	5,000 gallons	
	High High Level Switch	8,000 gallons	
Air Stripper	Tower	15' high x 36" diameter	
	Liquid Flow Rate	85,200 gpd	
	Vapor Flow Rate	1000 cfm	
	Iron & Manganese Control	< 0.5 mg/L	
	pH Control	6.5 - 7.5	
:	Fan Blowers	2 x 3 hp	
	Influent Pump Pressure	40 - 60 psi	
Vapor Phase Carbon	Carbon Volume	2 x 60 cf	
	Blower	7.5 hp	
	Heater	20 - 40 °F increase	
	Superficial Vapor Velocity	< 60 ft/min	
	Carbon Changeout Criteria	> 0.4 lbs/hr (> 30 ppmv)	
Liquid Phase Carbon	Carbon Volume	2 x 80 cf	
	Pump Pressure	40 - 60 psi	
	Carbon Changeout Criteria	> 5 ug/L TCE	
Treated Water Storage Tank	Low Level Switch	2,000 gallons	
	High Level Switch	4,500 gallons	
	Discharge Criteria	< 5 ug/L TCE	



Table 4-2. Site Monitoring Program

Inspection	Inspection			
Frequency Item		Description		
Weekly	Leak Detection	Inspect the leak detection system for evidence of piping conduit leaks.		
	Flow Totalizer Readings	Record totalizer readings for the treatment system volume totalizer (FT-100), extraction well totalizer (FT-102), and the recharge volume totalizer (FT-101).		
	Extraction Well Production	Scroll through the PLC (Flow Indicator Panel) to obtain the extraction well pumping volumes.		
	Vapor Treatment Inspection	Use a PID to analyze untreated air stream (SP101), between vapor phase carbon adsorption vessels (SP103), and treated air stream (at stack).		
	Water Treatment Inspection	Sample and analyze water samples from the treated water storage tank (SP107), between the liquid phase carbon adsorption vessels (SP106), and from the untreated water storage tank (SP105).		
Monthly	Air Monitoring	Use PID to analyze atmosphere along the fence line at the gate entrance, the upwind fence perimeter, and the downwind fence perimeter.		
	Groundwater Monitoring	Collect and analyze samples from ten extraction/monitoring wells. Base selection of wells to be sampled on results of previous sampling event.		



Table 4-3. Groundwater Monitoring Parameters

	Concentration	Analytical	Performed	
Compound	(ppb)	Method	By	Matrices
1,1-Dichloroethene	PQL	8260B	Lab	Groundwater
Trans-1,2-Dichloroethene	PQL	8260B	Lab	Groundwater
Methylene Chloride	PQL	8260B	Lab	Groundwater
Tetrachloroethene	PQL	8260B	Lab	Groundwater
1,1,1-Trichloroethane	PQL	8260B	Lab	Groundwater
1,1,2-Trichloroethane	PQL	8260B	Lab	Groundwater
Trichloroethene	PQL	8260B	Lab	Groundwater
Cis-Dichlorethene	PQL	8260B	Lab	Groundwater
Vinyl Chloride	PQL	8260B	Lab	Groundwater
Dissolved Oxygen	IDL		Field	Groundwater
PID	IDL		Field	Groundwater
Temperature	IDL		Field	Groundwater
рН	IDL		Field	Groundwater

PQL = Practical Quanatation Limit IDL = Instrument Detection Limit

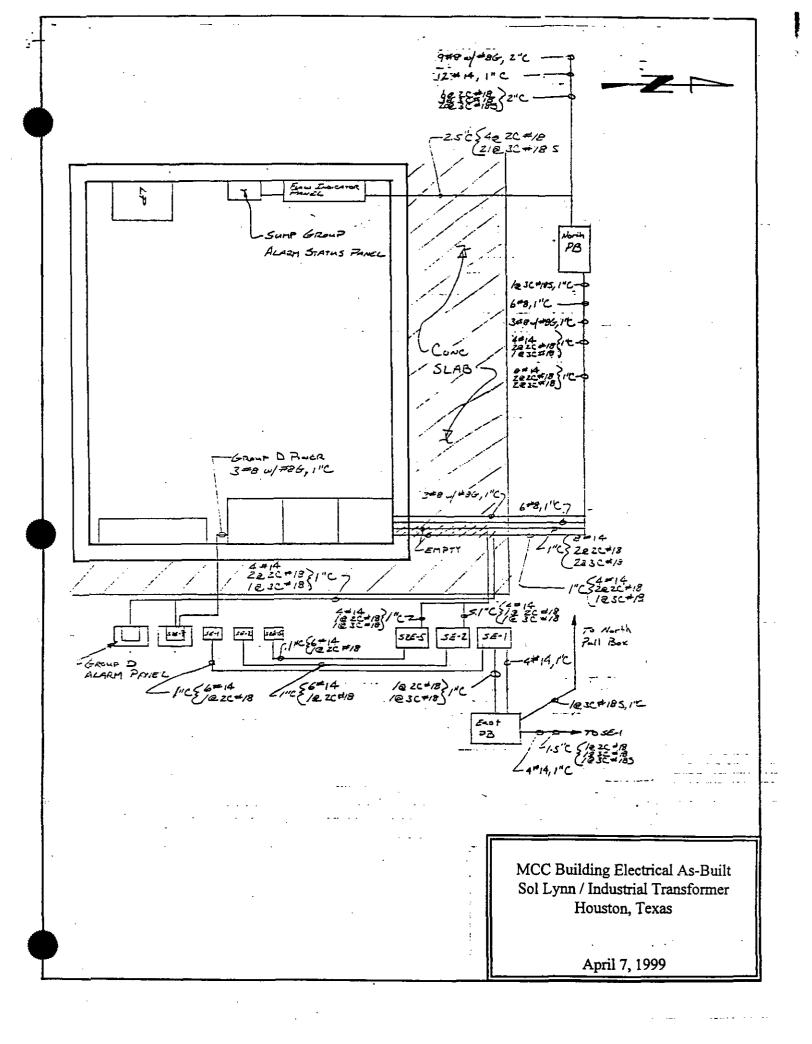


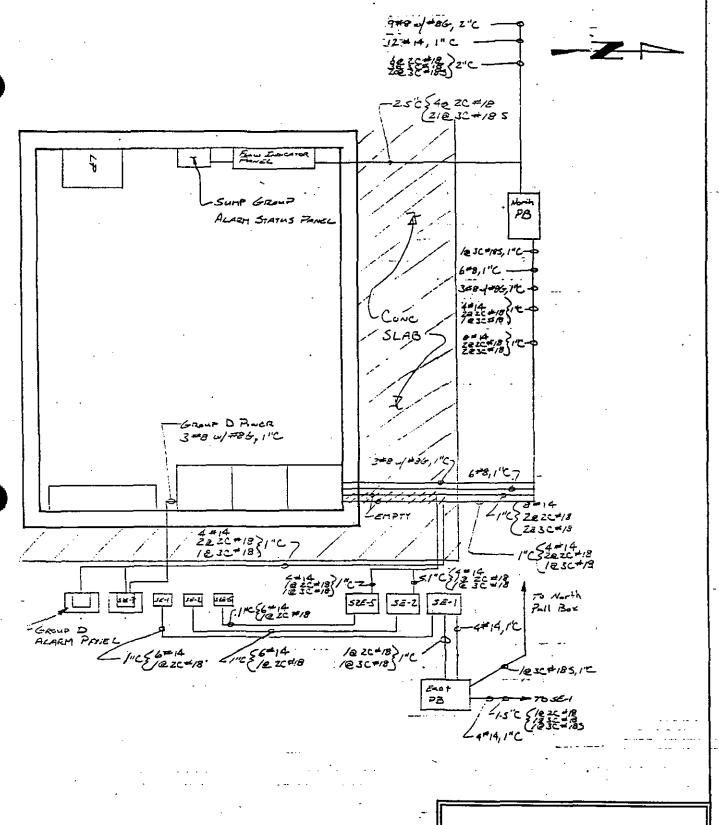
- The existing approximately one-foot air duct transition section (constructed of sheet metal) between the blower (upstream of the air stripper) and the air stripper has corroded to the extent that perforations have developed. A temporary patch has been installed. Radian has recommended replacing the transition section with a sheet-metal transition section.
- Repair the surface of the concrete treatment pad. The surface of the concrete between the air-striper skid and the sump was damaged by acid. Radian has recommended repairing the acid-damaged concrete with neat cement grout.
- Repainting of the metal surfaces. The metal surfaces have experienced corrosion. Radian has recommended painting all metal surfaces.
- Replacement of the failed air conditioner. The existing air conditions in the MCC building is worn out. Radian has recommended replacing the air conditioner with a new unit. Radian has also recommended that the replacement be an upgrade with about 50% greater cooling capacity.
- Evaluation of alternatives to carbon adsorption. The relatively large cost for carbon anticipated to remediate the site suggests the need to consider less costly treatment methods. The current emission concentrations from the air stripper appear to be within the limits allowed under the standard exemption for remediation treatment systems. Another alternative to carbon adsorption that merits consideration is a gas-fired internal combustion unit.
- Installation of an additional extraction well. The discovery of contamination in the 60-foot aquifer indicates a need to control the flow of groundwater in this zone. Radian recommends at least one extraction well in this aquifer. The location and need for more than one extraction well will need to be evaluated.
- Upgrade security system. The security system has deteriorated over time. Radian has recommended installation of a security light in the vicinity of the Treatment Pad sump to provide light in the site entrance gate area. Radian has recommended including a "plug" to guard the entrance gate.



APPENDX A

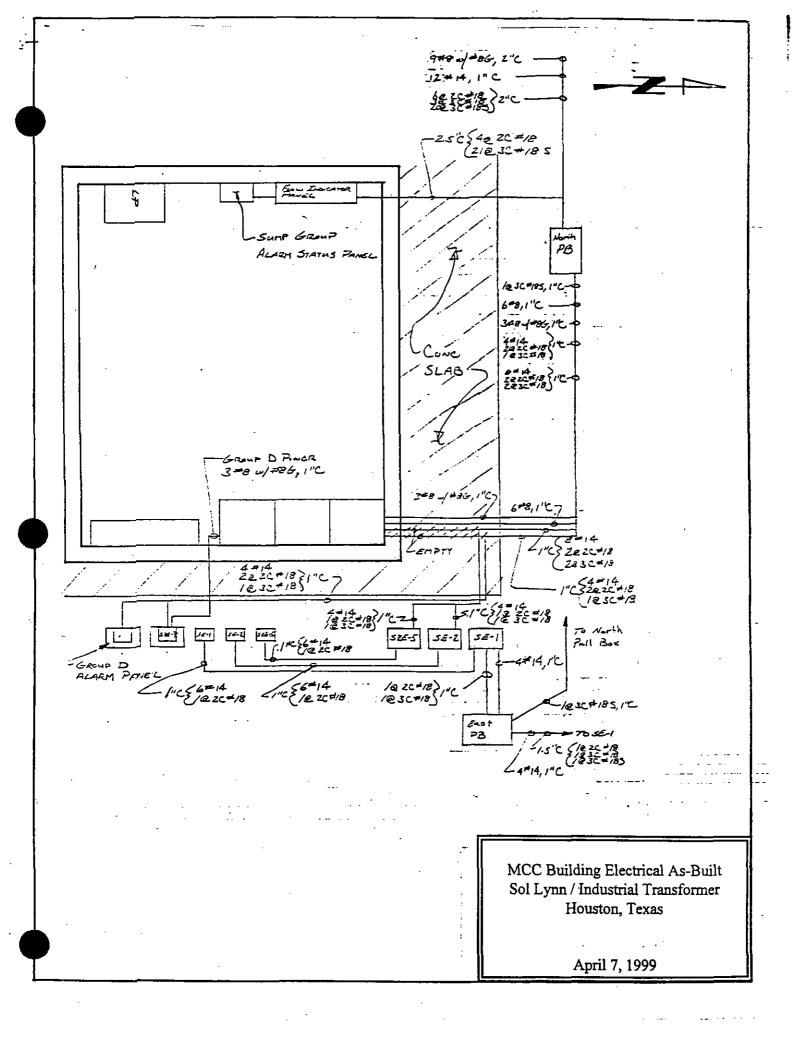
Record Drivings

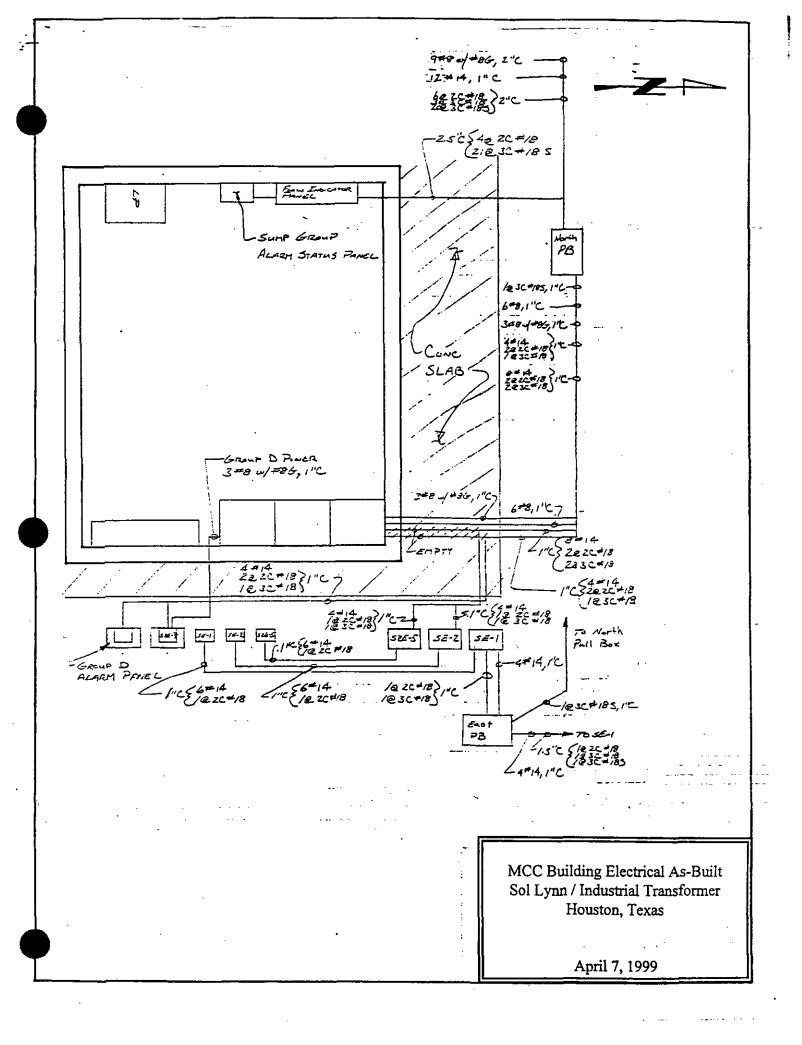


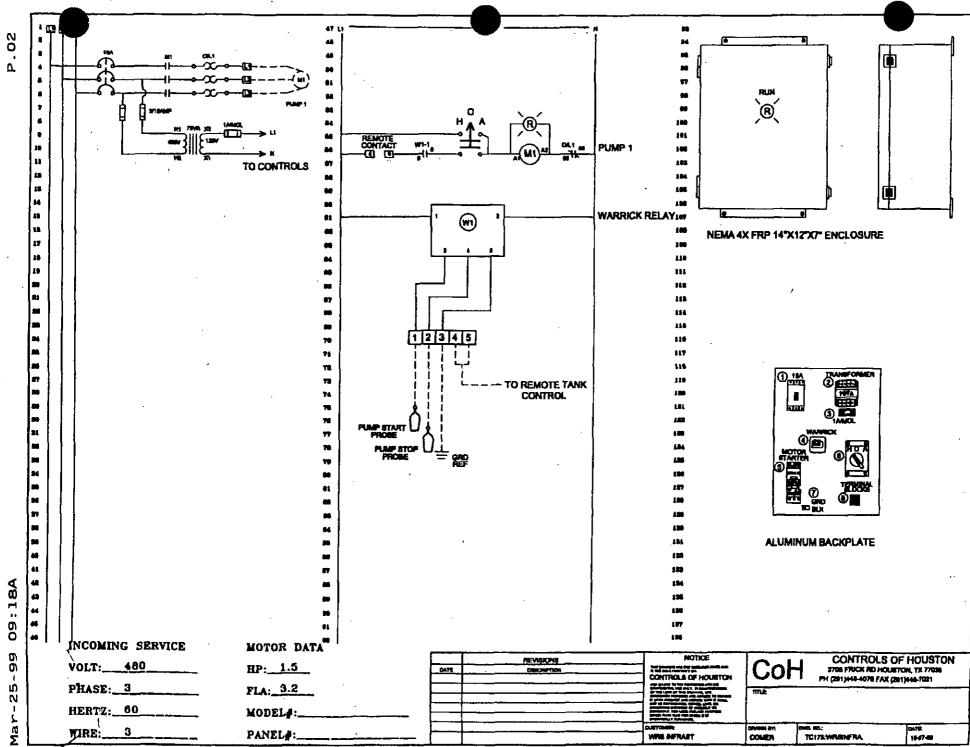


MCC Building Electrical As-Built Sol Lynn / Industrial Transformer Houston, Texas

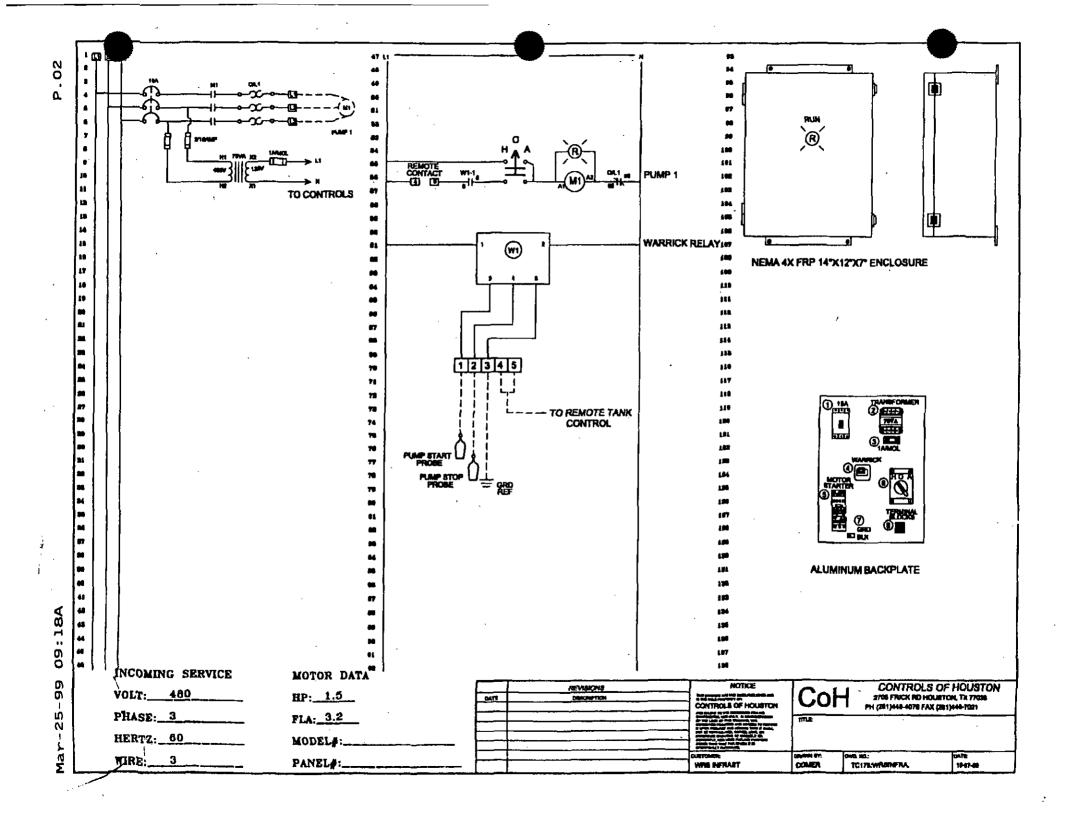
April 7, 1999





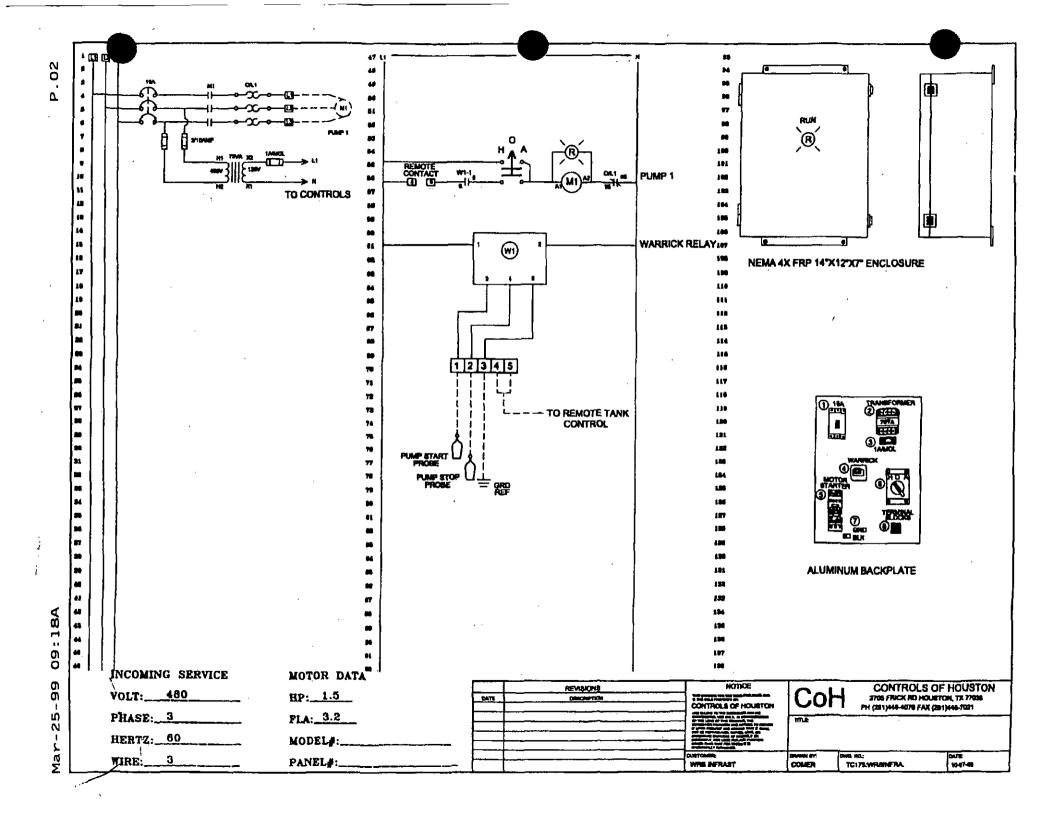


ITEM NO.	MANUF.	DESCRIPTION	PART NO.
1 .	. 44	16A CIRCUIT BREAKER	M624468
2	MICRON	75VA TRANSFORMER	B075BTZ13JK
3	BUSSMANN	1A FUSE FOR 120V CONTROLS	MOLI
4 .	WARRICK	WARRICK LEVEL CONTROLLER	16MC1MO
5	TELEMECH	IEC MOTOR CONTACTOR-O/L RELAY	LC1 D2510/LR2 D1308
6	SQ-D	H-O-A SWITCH OILTIGHT	ZB2 BJ3 BZ103
7	SIEMENS	TERMINAL BLOCK	8WA10113DG21
8	SQ-D	GROUND LUG	LAO _

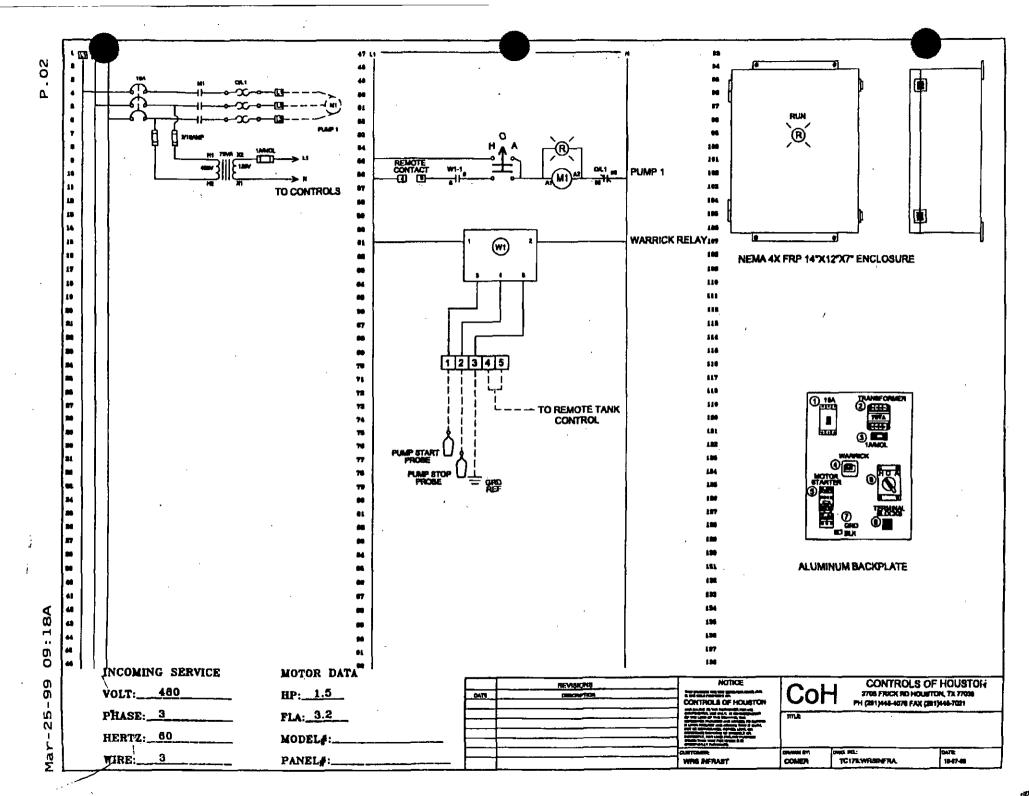


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6	SQ-D	H-O-A SWITCH OILTIGHT	ZB2 BJ3 BZ103
7	SIEMENS	TERMINAL BLOCK	8WA10113DG21_
8	SQ-D	GROUND LUG	LAO

WRSCOMPS.LWP

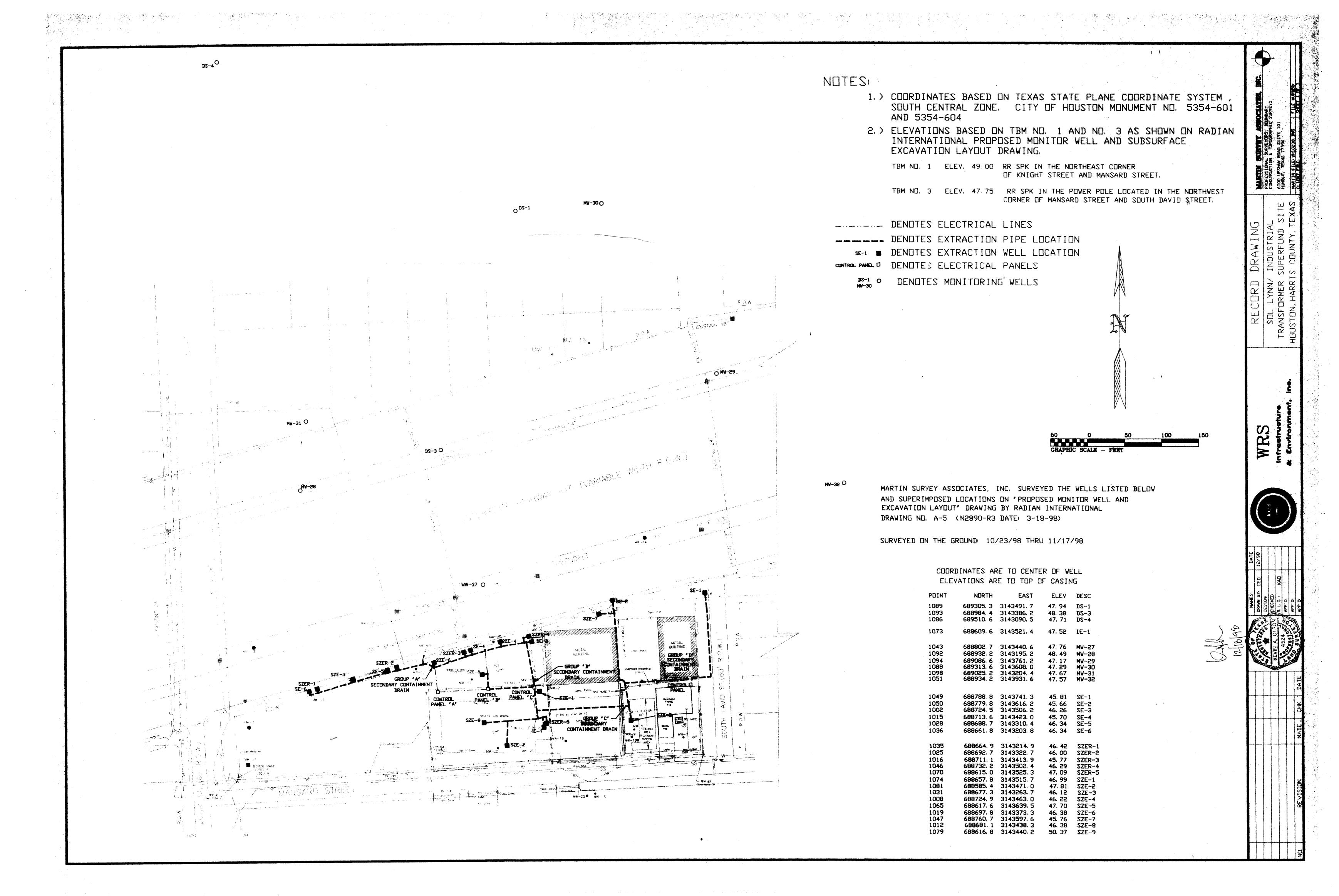


ITEM NO.	MANUF.	DESCRIPTION	PART NO.
1 .	"	16A CIRCUIT BREAKER	M624468
2	MICRON	75VA TRANSFORMER	B075BTZ13JK
3	BUSSMANN	1A FUSE FOR 120V CONTROLS	MOLI
4 .	WARRICK	WARRICK LEVEL CONTROLLER	16MC1MO
5	TELEMECH	IEC MOTOR CONTACTOR-O/L RELAY	LC1 D2510/LR2 D1308
6	SQ-D	H-O-A SWITCH OILTIGHT	ZB2 BJ3 BZ103
7	SIEMENS	TERMINAL BLOCK	8WA10113DG21
8	SQ-D	GROUND LUG	LAO



TTEM NO.	MANUF.	DESCRIPTION	PART NO.
1 .		16A CIRCUIT BREAKER	M624468
2	MICRON	75VA TRANSFORMER	B075BTZ13JK
3	BUSSMANN	1A FUSE FOR 120V CONTROLS	MOL1
4 .	WARRICK	WARRICK LEVEL CONTROLLER	16MC1MO
5	TELEMECH	IEC MOTOR CONTACTOR-O/L RELAY	LCI D2510/LR2 D1308
6	SQ-D	H-O-A SWITCH OILTIGHT	ZB2 BJ3 BZ103
7	SIEMENS	TERMINAL BLOCK	8WA10113DG21
8	SQ-D	GROUND LUG	LAO

WRSCOMPS.LWP





APPENDIX B Record Copy of Submittals

SUBMITTAL TRANS	MITTAL FORM		No/			
PROJECT:	nedial Action					
AGENCY:	Harris County, Texas TNRCC	·				
CONTRACT NO.:	98 800501 00	·				
DATE OF ISSUANCE:						
	7/28/98					
CONTRACTOR:	WRS Infrastructure & En					
ENGINEER:	Radian International, LL	· · · · · · · · · · · · · · · · · · ·				
ROUTING	SENT (Date, Si	gnature)	Received (Date, Signature)			
Contractor to Engineer	7/28/98	Clem	7/31/98 Han Korsai			
Engineer to Contractor	8/19/28 /2	1 Porse	77			
Contractor to Agency	VI VI	<u> пригод</u>				
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	<u>.</u>					
SUBMITTAL			·			
Item: Schedule	of Values 1310-1,1.3.8.4	•				
Specification Section:		Equipment Des	ignation:			
1290-2, 1.4.A.	1310-1; 1.3.B.4					
Drawing No.:		Location:	·			
Other:	· · · · · · · · · · · · · · · · · · ·	Number Of Copies:				
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Previous Submittal date:	19.0	Revision Numl	per:			
CONTRACTOR'S VEI	RIFICATION		,			
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	n Except for the Follow	ving Deviations:				
Remarks:			<u> </u>			
1	·					
By: Leur			7-28 <i>-9</i> 8			
Contractor (Authoriz	zed Signature)	Date				
	1/1/		- Alu			
SUBMITTAL REVIEW	\ A \ A \ \	-41 M -1	Davis and Davis			
Number of Copies Exceptions as Note		otions Taken	✓ Révise and Resubmit			
Remarks: Please		Con di m	Pasurement and payment			
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11.00						
By: Jan Nor.	Lin		31 August 1998			
Engineer (Authorize	ed Signature)	Date	e <i>V</i> / <i>O</i>			
F 1/2						

Distribution Contractor
Engineer
TNRCC

300 July 200

SCHEDULE OF VALUES

SOL LYNN/INDUSTRIAL TRANSFORMER SITE HOUSTON, TEXAS

Estimate for month of:

Date:

#BID	DESCRIPTION (Section)	ORIG		ORIGINAL	ORIGINAL	60.00	PREV	IOUS MONTH	CURR	ENT MONTH	i A ch	TOTALTO	DATES
SITEMS	DESCRIPTION (Section)	COTY	UNITE	FUNITI PRICE	BUDGET	DISTR	OTY	AMOUNTE	QTY	¥AMOUNT	OTY.	% COMP	MAMOUNTE
1	INSURANCE, SURETY, & PERMITS	1	LS	\$6,325.00	\$6,325.00	100%	O	\$0.00	0	\$0.00	0		\$0.00
	Insurance	1	LS	\$0.00	\$0.00	0%	0	\$0.00	0	\$0.00	o		\$0.00
]]]	Surety	1	LS	\$5,600.00	\$5,600.00	89%	0	\$0.00	0	\$0,00	∥ o		\$0.00
	Permits	1	LS	\$725.00	\$725.00	11%	0	\$0.00	0	\$0.00	0		\$0.00
2	MOBILIZATION & SITE SERVICES	1	LS	\$11,325.00	\$11,325.00	100%	0	\$0.00	0	\$0.00	0		\$0.00
]	Mobilize Personnel & Equipment	1	LS	\$2,600.00	\$2,600.00	23%	0	\$0.00	o	\$0.00	o		\$0.00
	Procure & Install Facilities	1	LŞ	\$3,062.50	\$3,062.50	27%	0	\$0.00	0	\$0.00	0		\$0.00
	Operation of Required Facilities	1	LS	\$5,662.50	\$5,662.50	50%	0	\$0.00	0	\$0.00	0		\$0.00
3	IMPLEMENTATION OF HEALTH & SAFETY PLAN	65	WD	\$168.00	\$10,920.00	100%	0	\$0.00	0	\$0.00	٥		\$0.00
4	IMPLEMENTATION OF CQC PLAN	65	WD	\$149.00	\$9,685.00	100%	0	\$0.00	0	\$0.00	0		\$0.00
5	TXDOT APPROVED TRAFFIC CONTROL PLAN	20	WD	\$390.00	\$7,800.00	100%	0	\$0.00	0	\$0.00	0	_	\$0.00
6	SHALLOW AQUIFER MONITORING WELLS	240_	LF	\$112.00	\$26,880.00	100%	0	\$0.00	0	\$0.00	0		\$0.00
7	DEEP SHALLOW AQUIFER SURFACE CASING	180	LF	\$248.50	\$44,730.00	100%	0	\$0.00	0	\$0.00	0		\$0.00
8	DEEP SHALLOW AQUIFER MONITORING WELLS	210	LF	\$97.00	\$20,370.00	100%	0	\$0.00	0	\$0.00	0		\$0.00
9	SILTY ZONE EXTRACTION WELLS	4	EA	\$12,660.00	\$50,640.00	100%	0	\$0.00	0	\$0.00	0		\$0.00
10	CONVERSION OF SILTY ZONE EXTRACTION WELLS	5	ΕA	\$8,790.00	\$43,950.00	100%	0	\$0.00	0	\$0.00	0		\$0.00
11	REMOVAL OF EXISTING COLLECTION PIPING SYS.	1100	LF	\$10.30	\$11,330.00	100%	0	\$0.00	0	\$0.00	0		\$0.00
12	INSTALL DUAL CONTAINMENT PIPING SYSTEM	1400	LF	\$30.40	\$42,560.00	100%	٥	\$0.00	0	\$0.00	0		\$0.00
13	INSTALL POWER DISTRIBUTION SYSTEM	1	LS	\$97,500.00	\$97,500.00	100%	0	\$0.00	0	\$0.00	0		\$0.00
14	PROJECT SPECIFIC HEALTH & SAFETY PLAN	1_	LS	\$985.00	\$985,00	100%	0	\$0.00	0	\$0.00	0		\$0.00
15	PROJECT SPECIFIC CQC PLAN	1	LS	\$1,650.00	\$1,650.00	100%	0	\$0.00	0	\$0.00	0		\$0.00
	TOTAL PROJECT				\$386,650.00								

ENVIRONMENTAL PROTECTION PLAN SOL LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE HOUSTON, TEXAS

Prepared by:

WRS Infrastructure & Environment 650 N. Sam Houston Parkway E. #500 Houston, Texas 77060

August 3, 1998

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2.0 Site Background	
3.0 Environmental Protection Plan	
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3.2.3 Air Resources Protection	
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3.5 Disposal of Debris	
3.6 Maintenance of Pollution Control Facilities	

ENVIRONMENTAL PROTECTION PLAN

Sol Lynn/Industrial Transformers Superfund Site Houston, Texas

1.0 Introduction

This Environmental Protection Plan has been developed by WRS Infrastructure and Environment, Inc. (WRS) for work at the Sol Lynn/Industrial Transformer Superfund Site (site) in Houston, Texas. This project is being conducted under the jurisdiction and direction of the Texas Natural Resources Conservation Commission (TNRCC) and U.S. Environmental Protection Agency (EPA). The TNRCC has designated Radian International LLC (Radian) of Houston, Texas to represent their interest as Engineer.

This plan has been developed to address environmental protection. It is intended to meet project requirements for an Environmental Protection Plan. These requirements are defined in 01355 (Environmental Protection) of the "Sol Lynn/Industrial Transformer Superfund Site Groundwater Remediation Design Technical Specifications—Final Package" (the Specifications) (Radian, June, 1998).

2.0 SITE BACKGROUND

The site is located in the southeastern portion of the City of Houston (Figure 2-1), adjacent to the feeder road for Loop 610. Its physical address is Blocks 1415, 1417, and 1419 South Loop West in Houston.

During the early 1970s, the site was used by the Industrial Transformer Company to clean and refurbish used transformers. Procedures used at the site resulted in the surficial release of transformer dielectric oils, at least some of which were polychlorinated biphenyl-based, and chlorinated solvents, primarily trichloroethene (TCE).

The released polychlorinated biphenyls (PCBs) were sorbed onto the surficial and near-surficial soils at the site. PCBs have not been identified as chemical of concern in the groundwater at the site. TCE, however, migrated downward into the groundwater in the upper three water-bearing zones underlaying the site.

A groundwater remediation system was installed at the site to collect and treat water contaminated with TCE. Work under this contract involves modification and expansion of the existing groundwater remediation system, including:

- Mobilization of personnel and equipment;
- Site preparation;
- Expansion of the existing groundwater extraction system by converting 5 existing extraction/recharge wells to extraction service, and installing 4 new extraction wells;
- Expansion of the groundwater monitoring system by installing 9 new monitoring wells;
- Modification of the groundwater collection system including removal, decontamination, and disposal of existing piping; conversion of underground electrical control boxes to above ground service; and installation of associated electrical power, instrumentation and controls;
- Demobilization of personnel, construction equipment and temporary facilities.

3.0 Environmental Protection Plan

The Environmental Protection Plan provides for the protection of the environment to the fullest extent practical during project execution, and the restoration of the environment at the project's completion, except as otherwise delineated by the Specifications.

3.1 Noise Levels

Excessive use of vehicle horns and unmuffled exhaust systems will not be tolerated. WRS will take corrective action to address such deficiencies.

3.2 Resources Protection

3.2.1 Land Resources Protection

WRS will preserve all land resources within the site premises in their present condition or restore them to a natural condition at the project completion. Site specific selective placement of materials will be performed so as to minimize erosion. WRS will comply with all applicable laws concerning soil erosion and sediment control, including the use of silt fence in disturbed areas, as necessary.

3.2.2 Water Resources Protection

WRS will not pollute any streams, rivers, waterways, or drainage channels with fuels, oils, solvents, acids, insecticides, herbicides, trash, or other harmful materials and substances. Soil erosion will be kept to a minimum by use of rough grading, hay bales, silt fencing, or other measures were necessary. Run-on and run-off storm water will be controlled as set forth in the Specifications. Stormwater run-on to the treatment or decontamination pads is limited by existing curbs and berms. Run-off that has not contacted the treatment or decontamination pads will be assumed to be uncontaminated and will be routed to a bar ditch leading to a storm water sewer. Run-off that is contained in the treatment of decontamination pads will be pumped into the stormwater detention tank and periodically routed into the groundwater treatment plant for treatment prior to discharge to the recharge system.

3.2.3 Air Resources Protection

WRS will minimize pollution of air by preventing fires and excessive equipment exhaust. The following actions will be taken by WRS to minimize air pollution:

- Instruct operators of heavy equipment (trucks, bull-dozers, backhoes, etc.) and their supervisors in the requirements for, and the measures necessary to be taken for minimizing the generation (stirring-up) of dust clouds and release in the atmosphere of noxious fumes:
- Provide and utilize equipment and personnel for water spray to trap and settle dust and fumes as specified in the Health and Safety Plan; and
- Apply the action levels and measures necessary to control dust and fumes, as described in the Health and Safety Plan.

3.3 Recording and Preserving Historical and Archaeological Finds

Any objects having apparent historical or archaeological value that are discovered in the course of construction activities will be faithfully preserved. Site personnel will leave the archaeological find undisturbed and immediately report the find to the Engineer so that the proper authorities may be notified.

3.4 Protection of Fish and Wildlife

Site personnel will perform work in a manner that will not endanger fish and wildlife. WRS will ensure that activities will not alter water flow or otherwise disturb any identified habitats which, in the opinion of Engineer, are critical to fish and wildlife. However, the site is located in a commercial area adjacent to downtown Houston, and significant natural habitats for fish and wildlife are not present.

3.5 Disposal of Debris

All debris resulting from operation on this site will be removed and disposed of by WRS. Transport and disposal will comply with all applicable Federal, State, and local laws. Such materials will be removed from the site prior to final completion and acceptance of the Work. All waste materials will be disposed of in accordance with the requirements of Section 02125 of the Specifications.

3.6 Maintenance of Pollution Control Facilities

All debris resulting from WRS operations at the site will be collected and disposed of off site. Transport and disposal of debris will comply with all applicable Federal, State, and local laws. Dumpsters, roll-off boxes, and trash drums will be located on site for containment and disposal of construction debris and non-hazardous solid waste. The non-hazardous waste containers will be emptied weekly (or as they are filled) during the project. All such materials will be removed from the site prior to final completion and acceptance of the Work.

APPENDIX A SAMPLE SECURITY LOG

DAILY SECURITY LOG

SOL LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE

Houston, Texas
WRS Project No. _____

Log Date:	_		
WRS SECURITY INSPECTOR			
Name:	<u> </u>		
			•

		CURITY CHECK
FACILITY CHECKED	TIME_	CONDITION/COMMENTS
Perimeter Fence		
Entrance Gates		
WRS Project Trailer		
Site Structures		
Parking Areas & Vehicles		
Other		

ENTRANCE / EXIT LOG

SOL LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE

Houston, Texas

WRS Project No:

NAME	DATE	VEHICLE LICENSE NO.	TIME IN	TIME OUT
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SITE SECURITY PLAN SOL LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE HOUSTON, TEXAS

Prepared by:

WRS Infrastructure & Environment 650 N. Sam Houston Parkway E. #500 Houston, Texas 77060

August 3, 1998

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1.0 Introduction	1
2.0 Site Background	
3.0 Site Security Plan	
3.1 Site Security Protocols	
3.2 Security During Emergencies	
3.3 Personnel Names and Qualifications	

SITE SECURITY PLAN

Sol Lynn/Industrial Transformers Superfund Site Houston, Texas

1.0 Introduction

This Site Security Plan has been developed by WRS Infrastructure and Environment, Inc. (WRS) for work at the Sol Lynn/Industrial Transformer Superfund Site (site) in Houston, Texas. This project is being conducted under the jurisdiction and direction of the Texas Natural Resources Conservation Commission (TNRCC) and U.S. Environmental Protection Agency (EPA). The TNRCC has designated Radian International LLC (Radian) of Houston, Texas to represent their interest as Engineer.

This plan has been developed to address site security. It is intended to meet project requirements for a Site Security Plan. These requirements are defined in Sections 01710 (Security) of the "Sol Lynn/Industrial Transformer Superfund Site Groundwater Remediation Design Technical Specifications-Final Package" (the Specifications) (Radian, June, 1998).

2.0 SITE BACKGROUND

The site is located in the southeastern portion of the City of Houston (Figure 2-1), adjacent to the feeder road for Loop 610. Its physical address is Blocks 1415, 1417, and 1419 South Loop West in Houston.

During the early 1970s, the Site was used by the Industrial Transformer Company to clean and refurbish used transformers. Procedures used at the site resulted in the surficial release of transformer dielectric oils, at least some of which were polychlorinated biphenyl-based, and chlorinated solvents, primarily trichloroethene (TCE).

The released polychlorinated biphenyls (PCBs) were sorbed onto the surficial and near-surficial soils at the Site. PCBs have not been identified as chemical of concern in the groundwater at the Site. TCE, however, migrated downward into the groundwater in the upper three water-bearing zones underlaying the Site.

A groundwater remediation system was installed at the site to collect and treat water contaminated with TCE. Work under this contract involves modification and expansion of the existing groundwater remediation system, including:

- Mobilization of personnel and equipment;
- Site preparation;
- Expansion of the existing groundwater extraction system by converting 5 existing extraction/recharge wells to extraction service, and installing 4 new extraction wells;
- Expansion of the groundwater monitoring system by installing 9 new monitoring wells;
- Modification of the groundwater collection system including removal, decontamination, and disposal of existing piping; conversion of underground electrical control boxes to above ground service; and installation of associated electrical power, instrumentation and controls;
- Demobilization of personnel, construction equipment and temporary facilities.

3.0 SITE SECURITY PLAN

This plan describes procedures and protocols that will be used to prevent entry into the site by unauthorized personnel, and to deter, restrict, and/or control financial losses to the TNRCC, EPA, Engineer, and WRS due to theft, embezzlement, vandalism, sabotage, and/or arson. These procedures and protocols conform to the requirements specified in Section 1710 of the Specifications.

3.1 Site Security Protocols

WRS will use onsite WRS personnel to provide site security during normal working hours. The existing site perimeter security system will be used to provide site security after hours, on weekends, and on holidays. In addition to the perimeter security system, a security fence posted with warning signs is located around the treatment plant area.

WRS will designate on site employees who will be responsible for site security. The Site Superintendent and SSO will have primary responsibility for site security, but may delegate some of their duties to other WRS personnel on site from time to time. These employees will be responsible for limiting site access, maintaining site entrance/exit logs, performing security checks, and preparing daily security logs, entrance logs, and security incident reports. Samples of these logs and reports are shown in Appendix A. Security checks will be conducted daily. The gates and perimeter fences will be visually inspected to ensure they are in good condition and that there has not been a security breach. If the fence or gates are damaged, they will be repaired immediately. Damaged or missing signs, barricades, or caution tape will be repaired or replaced as needed.

Unauthorized persons identified on site (i.e., vandals, trespassers, etc.) will be detained until local law enforcement officials can be summoned. Unauthorized personnel attempting to gain access to the site will be handled in the same manner.

3.2 Security During Emergencies

Standard operating procedures for responses to emergency situations are outlined in the site Specific Health and Safety Plan which has been prepared specifically for this project by WRS. All on site personnel will review and be familiar with the these procedures. A list of emergency contacts including the names and telephone numbers of the Site Superintendent, the Health and Safety Officer, and all applicable emergency support services will be posted in the job trailer.

WRS will coordinate with local law enforcement officials (i.e. police, sheriff, highway patrol, emergency medical corps units, fire department, and utility emergency teams) to map out contingency plans for emergency situations.

3.3 Personnel Names and Qualifications

WRS's Site Superintendent and Site Safety Officer will have primary responsibility for site security during normal work hours. Both Mr. Perry and Mr. Scott have worked on many project sites where security of this type is required and are well qualified to serve in this capacity.

TEMPORARY CONTROLS PLAN SO LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE HOUSTON, TEXAS

Prepared by:

WRS Infrastructure & Environment 650 N. Sam Houston Parkway E. #500 Houston, Texas 77060

August 3, 1998

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2.0 Site Background	2
3.0 Temporary Controls Plan	
3.1 Erosion and Sedimentation Control	
3.2 Pollution Control	3
3.2.1 Air Release Control	3
3.2.2 Water Pollution Control	3
3.3 Maintenance Cleaning of Site	3
3.4 Staging Area	3
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3.6 Traffic Control	

TEMPORARY CONTROLS PLAN

Sol Lynn/Industrial Transformers Superfund Site Houston, Texas

1.0 Introduction

This Temporary Controls Plan has been developed by WRS Infrastructure and Environment, Inc. (WRS) for work at the Sol Lynn/Industrial Transformer Superfund Site (site) in Houston, Texas. This project is being conducted under the jurisdiction and direction of the Texas Natural Resources Conservation Commission (TNRCC) and U.S. Environmental Protection Agency (EPA). The TNRCC has designated Radian International LLC (Radian) of Houston, Texas to represent their interest as Engineer.

This plan has been developed to address the issue of spill control. It is intended to meet project requirements for a Temporary Controls Plan as defined in Section 01560 (Temporary Controls) of the "Sol Lynn/Industrial Transformer Superfund Site Groundwater Remediation Design Technical Specifications-Final Package" (the Specifications) (Radian, June, 1998).

2.0 SITE BACKGROUND

The site is located in the southeastern portion of the City of Houston (Figure 2-1), adjacent to the feeder road for Loop 610. Its physical address is Blocks 1415, 1417, and 1419 South Loop West in Houston.

During the early 1970s, the site was used by the Industrial Transformer Company to clean and refurbish used transformers. Procedures used at the site resulted in the surficial release of transformer dielectric oils, at least some of which were polychlorinated biphenyl-based, and chlorinated solvents, primarily trichloroethene (TCE).

The released polychlorinated biphenyls (PCBs) were sorbed onto the surficial and near-surficial soils at the Site. PCBs have not been identified as chemical of concern in the groundwater at the site. TCE, however, migrated downward into the groundwater in the upper three water-bearing zones underlaying the site.

A groundwater remediation system was installed at the site to collect and treat water contaminated with TCE. Work under this contract involves modification and expansion of the existing groundwater remediation system, including:

- Mobilization of personnel and equipment;
- Site preparation;
- Expansion of the existing groundwater extraction system by converting 5 existing extraction/recharge wells to extraction service, and installing 4 new extraction wells;
- Expansion of the groundwater monitoring system by installing 9 new monitoring wells:
- Modification of the groundwater collection system including removal, decontamination, and disposal of existing piping; conversion of underground electrical control boxes to above ground service; and installation of associated electrical power, instrumentation and controls;
- Demobilization of personnel, construction equipment and temporary facilities.

3.0 TEMPORARY CONTROLS PLAN

This Temporary Controls Plan describes the temporary controls that will be implemented at the site during the course of the Work. Temporary controls include erosion and sedimentation controls, pollution controls, stormwater controls, maintenance and cleaning, temporary facilities, and traffic control.

3.1 Erosion and Sedimentation Control

Work required at the site will be planned and executed using methods that will minimize and control surface drainage in order to reduce erosion and sedimentation to the least amounts practical.

3.2 Pollution Control

3.2.1 Air Release Control

Air releases will be controlled by implementing the following procedures:

- Operators of heavy equipment and their supervisors will be made aware of the requirement for and the measures to be taken for minimizing the generation of dust clouds.
- Equipment and personnel will be provided and utilized as needed to apply water to dry work areas to trap and settle dust as specified in the Health and Safety Plan.
 Action levels and measures necessary to control dust are described in the Health and Safety Plan.

3.2.2 Water Pollution Control

Surface spill control measures will be implemented to prevent contamination of surface or groundwater by recovered contaminants, fuel, or other hazardous materials used, stored or handled on site by WRS. Specific control measures are detailed in the Spill Control Plan prepared for this project.

3.3 Maintenance Cleaning of Site

Covered containers will be located on site for the collection and containment of rubbish, debris, and non-hazardous waste. Waste materials will typically be disposed of weekly.

3.4 Staging Area

A staging area will be provided west of the treatment system for temporary storage of waste containers, equipment, and other materials used in construction. The staging area will be located

between the decontamination pad and the existing fence on the west side of the property. Since this area will be located inside the existing fence, no additional security measures will be required. The staging area will be restored to its original condition following construction activities.

3.5 Meeting Area

WRS will provide an office trailer that will be located adjacent to the staging area, west of the treatment system. Site meetings will be held in this trailer. Since the trailer will be located inside the fenced area, no additional security measures will be required. The engineer will be supplied with a key to the trailer.

3.6 Traffic Control

Traffic control measures will be implemented, as required, throughout the duration of the project. The Traffic Control Plan prepared for this project will be implemented during the installation of new monitoring wells located in Texas Department of Transportation right of ways. During other phases of work, WRS will take the following measures to control traffic:

- Restrict vehicular and pedestrian access to the site in accordance with the Site Security Plan.
- Monitor vehicular parking; restrict vehicular parking to construction personnel and other authorized persons; maintain vehicular access.
- Prevent construction parking on public roads that might be a hazard or a nuisance to the public.
- Provide flagon as needed to prevent hazardous conditions for construction and public traffic.
- Schedule and stagger trucks and material deliveries to minimize on site and off site congestion.
- Minimize disruption of the use of off site drives and roads.

SUBMITTAL TRANSMITTAL FORM No. 2							
PROJECT:	_	Sol Lynn/Industrial Transformers Site Remedial Action Harris County, Texas					
AGENCY:	TNRCC		.,				
CONTRACT NO.:	98 8005			<u></u>			
DATE OF ISSUANCE:	7/28						
CONTRACTOR:		frastructure & En	vironment. Inc	_	<u> </u>		
ENGINEER:		International, LLC		<u> </u>			
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0222	2	2	16SEP98	17SEP98	0						■ De	eo Sha	II. Aq. M	on. Wells	, DS-1 & D	s-2		
0206	2	2	18SEP98	19SEP98	0							Shallow	Aq. Mor	. Wells,	Viw-27 & N	W-32	<u> </u>	
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PROJECT:	Sol Lynn/Industrial Trans Harris County, Texas	Sol Lynn/Industrial Transformers Site Remedial Action Harris County, Texas					
AGENCY:	TNRCC						
CONTRACT NO.:	98 800501 00						
DATE OF ISSUANCE:	7/28/98						
CONTRACTOR:	WRS Infrastructure & En	vironment, Inc.					
ENGINEER:	Radian International, LLC						
ROUTING	SENT (Date, Sig	gnature)	Received (Date, Signature)				
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Distribution:

Contractor Engineer TNRCC

Submittal Register by WRS Infrastructure & Environment Sol Lynn/Industrial Transformer Site Houston, Texas

Status Date: 07/29/98

Sub.#	Submittal Description	Specification Reference	Submitted	Status/Date	Comments
1	Schedule of Values	01290-2, 1.4.A; 01310-1, 1.3.B.4	7/29/98	review/07/29/98	
	Schedule of Submittals	01310-1, 1.3.B.3			
	Environmental Protection Plan	01310-1, 1.3.B.5			
	List of Proposed Subcontractors	01310-1, 1.3.B.7			
	Proposed Temporary Controls Plan	01310-2, 1.3.B.8		•	
	Questions - Work Site & Conduct of Work	01310-2, 1.3.B.11			
	Site Security Protocols	01310-2, 1.3.B.14			
2	Initial Estimated Progress Schedule	01320-1, 1.3.A; 01310-2, 1.3.B.13	7/29/98	review/07/29/98	
]	Final Progress Schedule	01320-1, 1.3.D			
	Revised Project Schedule	01320-1, 1.3.E			
3	Submittal Register	01330-1, 1.3.A; 01310-1, 1.3.B.6	7/29/98	review/07/29/98	
4	Health & Safety Plan	01350-2, 1.4.A; 01310-1, 1.3.B.1	7/29/98	review/07/29/98	
	Contractor's Physician's Qualifications	01350-2, 1.4.C			
	Details of Project Related Injuries & Illnesses	01350-2, 1.4.D			
	Employee Training Document./Certification	01350-2, 1.4.E			
	Employee Compliance Agreement	01350-3, 1.4.F			
	Employee Respiratory Fit Test Records	01350-3, 1.4.G			
i	Medical Certificates	01350-3, 1.4.H			
	Logs & Reports	01350-3, 1.4.1			
	Health & Safety Officer Qualifications	01350-3, 1.4.J			i
]	Site Safety Officer Qualifications	01350-4, 1.4.K			
	Proposal for Implementing this Section	01355-1, 1.4.A			
	Spill Control Plan	01355-3, 3.9.A			
	Progress Photos	01390-1, 1.3.A			
5	Construction Quality Control Plan	01400-1, 1.3.A.1; 01310-1, 1.3.B.2			
	TxDOT Approved Traffic Control Plan	01600-1, 1.3.A; 01310-2, 1.3.B.12			
	List of Major Products	01630-1, 1.4.A, 01310-1, 1.3.B.7			
	Request for Product Sustitutions	01630-1, 1.5.A; 01310-2, 1.3.B.9	<i>,</i>		
	Security Plan	01710-1, 1.3.A			
[Site Security Protocols	01710-2, 3.2			

b.#	Submittal Description	Specification Reference	Submitted	Status/Date	Comments
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	Name & Quals of Registered Prof. Surveyor	01720-1, 1.4.A			
	As Built Drawings	01720-1, 1.4.C	i		
	Project Record Documents	01720-1, 1.5			
	Surveys for Measurement & Payment	01720-2, 3.4.C	1	·	
	Written Notice of Substantial Completion	01780-1, 1.3.A			
	Written Certification of Final Completion	01780-1, 1.4.A)]	
j	Project Record Documents	01780-2, 1.6.A	j	J	
	Evidence of Payment & Release of Liens	01780-2, 1.6.B			
	Consent of Surety to Final Payment	01780-2, 1.6.C			
	Statement of Adjustment of Accounts	01780-2, 1.7			
	Application for Final Payment	01780-2, 1.8			
	Record Documents	01800-3, 1.5.A			
	Test Reports	02110-1, 1.4.A			
	Monthly Operations Log	02120-2, 1.5.A			<u> </u>
	Copies of Way Bills	02125-1, 1.3.A.1			
1	Copies of Weigh-in/Weigh-out Tickets	02125-1, 1.3.A.2	•		
	Copies of Manifests from Disposal Facility	02125-1, 1.3.A.3			
	Water Well Driller's Texas license	02150-2, 1,3,A.1			
	Driller's current OSHA 1910.120 training certs	02150-2, 1.3.A.2			
	City of Houston permit Info	02150-2, 1.3.A.3	[•
	Product Data	02155-2, 1.5.A			
	Shop Drawings	02155-2, 1.5.B			
	Record Drawings	02155-2, 1.5.C			•
	Manufacturer's & Installer's Qualifications	02155-2, 1.5.D			
	Maintenance Data	02900-1, 1.7.A			
	Restoration Evidence	02900-2, 1.10.A			
	Product Data	03300-1, 1.4.1			
	Laboratory Test Results	03300-1, 1.4.2			
	Departures from Diagrammatic Drawings	16010-3, 1.5.D	<u> </u>	· ·	
	List of Material & Equipment	16010-5, 1.6.E			
	Record Drawings	16015-10, 3.9			<u> </u>
	Testing Forms	16015-10, 3.10			

SUBMITTAL TRANS	MITTA	L FORM			No. <u>4</u>			
PROJECT:	Sol Lynn/Industrial Transformers Site Remedial Action							
		County, Texas						
AGENCY:	TNRC	<u> </u>						
CONTRACT NO.:	98 800	501 00			· _			
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CONTRACTOR:	WRS I	nfrastructure & En	vironmer	it, Inc.				
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SITE SPECIFIC

HEALTH and SAFETY PLAN

for

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Sol/Lynn Industrial Transformer
Superfund Site
Houston, Texas

Prepared by:

WRS Infrastructure & Environment, Inc.
Western Region
Salt Lake City, Utah

June 1998



WRS Infrastructure & Environment, Inc. Western Region Site Specific Health and Safety Plan

Date:

June 1998

Project Name:

Sol Lynn/Industrial Transformer

Superfund Site

Job Description:

Modification & Expansion of the

Groundwater System

Project Number:

4412-98-4029

Project Duration:

Start: TBD 1998

End: TBD 1998

Author:

Richard D. Scott

Review and Approval

Project Manager	Date
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WRS H&S Manager	Date
Pla DSol	7-23.98
Regional H&S Coordinator	Date

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ACRONYMS & ABBREVIATIONS

This list is supplied as an easy reference guide for the acronyms and abbreviations most used throughout this Health and Safety Plan:

ACGIH American Conference of Governmental Industrial Hygienist

ANSI American National Standards Institute

CAS Chemical Abstracts Service
CFR Code of Federal Regulations
CPR Cardiopulmonary Resuscitation
DOT Department of Transportation

EPA U.S. Environmental Protection Agency

HAZWOPER Hazardous Waste Site Operations Emergency Response

HSC Region Health and Safety Coordinator

H&S Health & Safety

SHSP Site Health & Safety Plan

IDLH Immediately Dangerous to Life or Health

MSDS Material Safety Data Sheet

MSHA Mine Safety & Health Administration

NIOSH National Institute for Occupational Safety & Health

NRC National Response Center

OSHA Occupational Safety & Health Administration

PEL Personal Exposure Limit

PM Project Manager

PPE Personal Protective Equipment
REL Recommended Exposure Limit

RFP Request for Proposal
RQ Reportable Quantities
SHSO Site Health & Safety Officer
SOP Standard Operating Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value

TNRCC Texas Natural Resource Conservation Commission

TWA Time Weighted Average

1.0 INTRODUCTION

This site-specific Health and Safety Plan (HASP) was designed by WRS Infrastructure & Environment, Inc. (WRS) to define the requirements and procedures that shall be followed at all the project sites during work activities. It was developed in accordance with both the comprehensive WRS Health and Safety Manual and current safety standards defined in the Federal regulations. Utilizing these sources, the plan addresses adverse health effects that could result from exposure to site-specific physical hazards, describes procedures to monitor and avoid such hazards, and describes emergency response actions to follow in the event of exposure to these hazards. Federal regulations utilized as references during preparation of this plan are:

- OSHA 29 CFR 1910;
- EPA, OERR ERT Standard Operating Safety Guides
- NIOSH/OSHA/USCG/EPA Occupational Health and Safety Guidelines
- ACGIH Threshold Limit Values
- NIOSH Pocket Guide to Chemical Hazards; and
- Sax's Dangerous Properties of Industrial Chemicals

This site-specific HASP shall be adhered to by WRS employees, subcontractors, and visitors associated with work activities at the site. Prior to admittance to the portion of the site where work activities will be conducted, all personnel will be informed of potential hazards and appropriate emergency procedures. This plan shall be read and signed as an agreement to comply with all of its provisions by all personnel entering the exclusion (work) zone.

Site specific activities may warrant modifications to this plan. Any modifications will be approved and implemented by either the WRS Regional H&S Coordinator or the WRS H&S Manager.

2.0 PROJECT DESCRIPTION

2.1 SITE & BACKGROUND

The Sol Lynn/Industrial Transformer Superfund Site is located in the southwestern portion of Houston adjacent to Loop 610. Its physical address is Blocks 1415, 1417, and 1419 South Loop West in Houston. Located in close proximity to the site are several other businesses. WRS work plan and this safety plan outlines procedures set forth to minimize hazards and operation disturbances to the other businesses. From time to time access might be interrupted however, WRS will work with the businesses to maintain proper access to their businesses.

This HASP outlines hazards and their controls associated with the Sol Lynn site. WRS will conduct air monitoring (Section 6) this will ensure that no contaminated emissions are being omitted by WRS or its subcontractors operations. Section 9 outlines site controls WRS will implement (work zones, site security, etc.).

The Industrial Transformer Company cleaned and refurbished old used transformers at this site in the 1970's. During this process transformer dielectric fluids, polychlorinated biphenyl (PCB) and chlorinated solvents (trichloroethylene (TCE) were released into the soil.

During site investigation activities PCB's were discovered in shallow soil samples. This remediation activity was addressed in another RFP. Contamination was also discovered in the groundwater, primarily that of TCE. Several monitoring wells and groundwater extraction system were put in place to decontaminate the groundwater.

2.2 ACTIVITIES

The project objective is to satisfy the client's needs, provide a clean site, and eliminate risk to human health and the environment while utilizing safe, appropriate, and expeditious methods. All project tasks are listed in within RFP provided by TNRCC. Some of the site-specific activities include:

- Mobilization: moving WRS personnel and equipment to the site.
- Site preparation.
- Expansion of groundwater extraction system.

Conversion of five (5) existing silty zone extraction/recharge wells to extraction service. Installation of four (4) new silty zone extraction wells.

- Expansion of the groundwater monitoring system.
 Installation of nine (9) new monitoring wells.
- Modification of the groundwater collection system.

Removal, decontamination and disposal of existing piping. Conversion of underground electrical control boxes to above ground service. Installation of associated electrical power, instrumentation and controls.

- Site restoration specified conditions, as required and applicable
- Demobilization: removal of WRS personnel and equipment from the site

3.0 PROJECT SAFETY ADMINISTRATION

3.1 KEY PERSONNEL

The following key health and safety personnel all have the responsibility of implementing and maintaining health and safety procedures during site work activities.

TABLE 3.1 KEY PERSONNEL

JOB FUNCTION &	NAME 3	OFFIGE PHONE	OTHER
Project Manager	Joe Anderson	(281) 820-0972	N/A
Regional & Site Health/Safety Coordinator	Richard Scott	(801) 265-2323	pager (888) 352-5368
Project Supervisor	Darrell Perry	(281) 820-0972	N/A
WRS H&S Manager	Doug Nelson	(404) 299-4720	N/A

3.2 RESPONSIBILITIES

The key safety personnel are ultimately responsible for enforcing health and safety procedures during the project. They have the authority to temporarily stop activities on the project if a hazard threatens human health or the environment. All project personnel including supervisors, operators, crew leaders, technicians, owner representatives, subcontractors and visitors are individually responsible for:

- Remaining aware of potential job hazards and that health and safety is a project priority
- Thoroughly understanding the contents of this HASP
- Conducting work on the site in strict accordance with the procedures of this HASP

Health and safety responsibilities to be implemented during the project for each of the key personnel are described below.

Project Manager

The Project Manager (PM) has the authority for directing all operations on the project and is ultimately responsible for project health and safety. The PM's primary responsibilities are to manage and maintain project health and safety in accordance with this HASP and allocate all resources necessary to permit each worker to perform the job safety. Other functions of the PM are to:

• Ensure that this HASP properly addresses site specifics, is approved by the Health and Safety Department, and is read by all those involved with the project

- Ensure that the project activities are performed in a manner consistent with WRS health and safety policies
- Ensure that all funds, materials, and equipment are allocated to fully implement the HASP
- Receive and act on reports and recommendations
- Review and direct WRS's response to any Site Incident Report

Regional Health and Safety Coordinator

The Regional Health and Safety Coordinator is responsible for preparation of the Health and Safety Plan and ensuring that all site-specific potential hazards are addressed in the plan. The Regional Health and Safety Coordinator will be the Site Health and Safety Officer and coordinate health and safety procedures with the key safety personnel and all other on-site personnel. Additional functions include:

- Managing employee health and safety training programs applicable to site operations
- Coordinating medical surveillance for on-site project personnel
- Conducting site visits and auditing compliance of all project personnel with the HASP
- Establishing and maintaining all employee health and safety training records and documentation
- Providing health and safety support and guidance to the PM
- Review and approve any changes to this HASP

Site Health and Safety Officer

The Site Health and Safety Officer (SHSO) will be on-site full-time and report to the Project Health and Safety Manager. The SHSO has on-site responsibility for ensuring that the provisions of the HASP are implemented in the field. The SHSO will be responsible for the correct and appropriate use of monitoring instruments, proper personal protective equipment (PPE), documentation of monitoring results, and site-specific project training. These items may be modified to accommodate a change in site conditions. The SHSO has final on-site authority for matters affecting worker health and safety or emergency situations that require immediate action. The SHSO responsibilities include:

- Conducting daily site safety meetings, perform additional safety meetings as required, and complete health and safety documentation
- Implementing day-to-day work zone monitoring
- Calibrating health and safety monitoring instrumentation (personal sampling pumps, real-time dust monitor, real-time organic vapor monitor) if needed
- Evaluating air monitoring and personal monitoring data in reference to established Action Levels
- Revising work zone boundaries and levels of PPE, as indicated by air monitoring or other sampling data
- Maintaining site health and safety documentation in the project files
- · Represent WRS during health and safety inspections
- Reviewing copies of all accident or injury reports and ensure that all documentation is promptly forwarded to the Project Health and Safety Manager as soon as possible
- Providing health and safety support and guidance to field personnel
- Reviewing and approving site-specific modifications to the HASP with the Project Health and Safety Manager
- Maintaining health and safety equipment and supplies (first aid kits, fire extinguisher, PPE, etc.)

Site Supervisor

The Site Supervisor utilizes monitoring data collected by the SHSO and ensures that all field personnel conform to the required PPE, designated work zones, and health and safety procedures specific to the project operations which is addressed in this HASP.

WRS H&S Manager

The WRS H&S Manager responsibilities within the WRS Health and Safety Program, include:

- Act as the Project Health and Safety Manager for this project
- Developing and maintaining up-to-date policies and procedures
- Review and approve all HASP developed by the Regional Health and Safety Coordinators
- Providing technical and administrative consultation to Region and site health and safety officers
- Tracking medical monitoring and training compliance
- Assessing the effectiveness of WRS programs, analyzing deficiencies and recommending corrective action to management
- Maintaining uniformity within the WRS Health and Safety Program

Project Personnel

Project personnel (employees or subcontractors) involved in on-site investigations or operations are responsible for:

- Taking all reasonable precautions to prevent injury to themselves and to their fellow employees
- Performing only those tasks that they believe they can do safely, and immediately reporting any accidents and/or unsafe conditions to the SHSO or PM
- Implementing the procedures set forth in this HASP, and reporting any deviations from the procedures described in this program to the SHSO or PM for immediate actions
- Notifying the PM or SHSO of any special medical problems they may have and seeing that other appropriate on-site personnel are aware of any such problems
- Reviewing this and any other project health and safety program and signing the acceptance form

Subcontractors

Each subcontractor is required to designate a Subcontractor's Safety Representative (SSR). The SSR is responsible for the safe and healthful performance of his work force and subcontractors. During the subcontractor's activities on site, the SSR will perform continuing work area inspections, and conduct safety meetings and safety orientations for all new on-site employees (of that subcontractor). At a minimum, the SSR will attend the morning WRS daily safety meeting. The SSR will also investigate any accidents or overexposures involving any subcontractor personnel.

4.0 HAZARDS ASSESSMENT

Physical hazards may be caused by open excavations, terrain changes, foreign objects, or heavy equipment and can be resultant from the site conditions, the type of work conducted at the site, and equipment used for the job. The risk of exposure to hazards can be greatly reduced or eliminated with proper health and safety controls (described in detail in Section 9.0 "Site Controls").

4.1 CHEMICAL HAZARDS

Material Safety Data Sheets (MSDS) for all suspected chemicals and other related substances anticipated to be present at the site will be available in the WRS project office trailer. These sheets provide comprehensive information concerning the health and safety hazards presented by the materials projected to be on site. No hazardous substances will be brought on site by WRS personnel without providing MSDS information, appropriate monitoring and protection.

Information regarding the hazards associated with chemicals on site will be conveyed to workers during the onsite worker safety training program. Throughout the course of this project, a series of potential chemical and physical hazards may be presented to site personnel. It is essential that these be evaluated and understood by all parties prior to their participation in onsite activities. The evaluation of hazards is based on the knowledge of site background and of anticipated risks posed by the specific tasks.

The NIOSH "Pocket Guide to Chemical Hazards" lists the recommended NIOSH and OSHA concentration exposure limits for various chemicals. The CAS number for each chemical is also listed for cross-referencing to the DOT "Emergency Response Guidebook", which describes emergency response procedures required in the event of an exposure to a particular chemical.

The ACGIH defines three categories of TVLs: Time-Weighted Average (TWA); Short-Term Exposure Limit (STEL); and Ceiling (C). These limits define the maximum concentrations to which a worker can be exposed to and not suffer adverse health effects. TWA is for 8 hours per day and 40 hours per week. STEL is for a 15-minute period. The ceiling defines the maximum concentration that should not be exceeded at any point in time. All of these categories were utilized in determining the appropriate level of PPE.

PELs are enforceable standards set by OSHA. The PEL is the 8 hours per day, 40 hours per week timeweighted average (or ceiling concentration) above which a worker cannot be exposed. The REL is a NIOSH recommended limit, but is not enforceable like the OSHA PEL. IDLH limits are primarily used as a guideline to selecting respirators and refer to maximum short-term concentrations from which a worker could escape without permanent harm if his respirator were to fail.

TLV Threshold Limit Value
 PEL Permissible Exposure Limit
 REL Recommended Exposure Limits

IDLH Immediately Dangerous to Life and Health

Exposure Routes

1

Chemical hazards exist as solids, liquids, or gases. The chemicals may be visible or not readily apparent to the human eye; highly volatile; capable of migration, as in groundwater; or immobile and bound in soils. Due to the extreme variety of ways chemical hazards can exist, chemicals can easily enter the body through one or more of the following routes and become a potential health hazard:

Inhalation Absorption
Ingestion Contact
Injection

Inhalation of chemicals may occur by breathing airborne vapors or particulates, which can affect the lungs and respiratory system. Chemicals may be absorbed into the bloodstream and transported to vital organs by passing directly through the unaffected skin, mucous membranes, or a punctured eardrum. Although it is unlikely that chemicals may be deliberately swallowed, ingestion can occur during eating, drinking, smoking, or through the use of chewing gum or tobacco. Chemicals may affect the outer skin layers or the eyes by direct contact. Injection is an accelerated form of absorption where a chemical can enter the bloodstream more quickly through a wound or skin puncture.

Entry of chemicals into the body can be prevented through the use of proper PPE. The proper selection of PPE was aided by the documentation submitted to WRS by the client and will be evaluated during ongoing site operations by monitoring data. Inhalation of vapors or particulates can be minimized by wearing respirators with appropriate cartridges. The Region Health and Safety Coordinator will determine if the selected respirator and cartridges should be continued or upgraded based on monitoring results. Absorption and contact can be prevented by wearing the proper level of PPE. Ingestion of chemicals can be prevented by avoiding the use of gum or tobacco products. Personal hygiene, such as thoroughly washing the face and hands with soap and water after leaving the work area and prior to eating, drinking, or using the restroom can minimize absorption and ingestion. Injection can be avoided by immediately treating any skin cuts or abrasions.

This HASP has been written to encompass hazards associated with the tasks to be performed at the Sol Lynn/Industrial Transformer Superfund Site.

The primary chemical of concern is trichloroethylene (TCE), this chemical is a carcinogen (cancer causing). The sampling of the groundwater and subsurface soils indicate that TCE is present at the site. Other volatile organic compound were discovered to be in the groundwater and the subsurface soils, however they are not present in concentrations which pose significant occupational exposures. With that this plan concentrates on TCE as the prime chemical hazard.

Table 4.1 presents the routes of exposure, exposure limits, and health effects for substances identified on the site.

TABLE 4.1 SUMMARY OF CONTAMINANT HEALTH HAZARDS

SUBSTANCE	EXPOSURE LIMIT (TLV, PEL, REL)	IDLH LEVEL	HEALTH EFFECTS	ROUTE OF ENTRY	FIRST AID By Route of Exposure
Trichoroethylene (TCE)	OSHA PEL 100 ppm	1000 ppm	Eye & skin irritation, Cough, chest pains, tremor, weak, GI dist.	Inhalation, Ingestion and Contact	Irrigate eyes, wash skin with soap, respiratory support, seek medical attention

TRICHLOROETHYLENE (TCE)

Hazard Rating:

3

CAS: 79-01-6

CAS Registry Number:

79-01-6

DOT Number: UN 1710 DOT Guide Number: 160

Reportable Quantity: (CERCLA) 100 lbs./45.4 kgs.

M Formula: C2HCl3 M Weight: 131.38

Flammable limits in air: LEL: 8.0%; UEL: 10.5% (both @ 77°F)

Odor: Chloroform-like; ethereal

Properties:

Clear, colorless, nonflammable, mobile liquid; characteristic sweet odor of chloroform. D: 1.4649 @ 20°/4°, boiling point: 86.7°, melting point: -84°, freezing point: -86.8°, autoignition temperature: 788°F, vapor pressure: 100 millimeter @ 32°, vapor density: 4.53, refractive index: 1.477 @ 20°. Immiscible with water; miscible with alcohol, ether, acetone, carbon tetrachloride. Insoluble in H2O; soluble in most organic solvs.

OSHA PEL: TWA 100 ppm; C 200 ppm

DOT Classification: 6.1; Label: KEEP AWAY FROM FOOD

Safety Profile:

Mildly toxic to humans by ingestion and inhalation. Mildly toxic experimentally by inhalation. Human systemic effects by ingestion and inhalation: eye effects, somnolence, hallucinations or distorted perceptions, gastrointestinal changes, and jaundice. Experimental reproductive effects. Human mutation data reported. An eye and severe skin irritant. Inhalation of high concentrations causes narcosis and anesthesia. A form of addiction has been observed in exposed workers. Prolonged inhalation of moderate concentrations causes headache and drowsiness. Fatalities following severe, acute exposure have been attributed to ventricular fibrillation resulting in cardiac failure. There is damage to liver and other organs from chronic exposure. A common air contaminant. Nonflammable, but high concentrations of trichloroethylene vapor in high-temperature air can be made to burn mildly if plied with a strong flame.

Emergency Response: Stop discharge if possible. Keep people away. Avoid contact with liquid and vapor. Call fire department. Isolate and remove discharged material. Notify local health and pollution control agencies.

Exposure

Short term effects: CALL FOR MEDICAL AID.

Vapor: Irritating to eyes, nose and throat. If inhaled, will cause nausea, vomiting, difficult breathing, or loss of consciousness. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.

Liquid: Irritating to skin and eyes. If swallowed, will cause nausea, vomiting, difficult breathing, or loss of consciousness. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.

Health Hazards

Personal protective equipment: Organic vapor-acid gas canister; self-contained breathing apparatus for emergencies; neoprene or vinyl gloves; chemical safety goggles; face-shield; neoprene safety shoes; neoprene suit or apron for splash protection.

Symptoms following exposure

Inhalation:

symptoms range from irritation of the nose and throat to nausea, an attitude of

irresponsibility, blurred vision, and finally disturbance of central nervous system

resulting in cardiac failure. Chronic exposure may cause organic injury.

Ingestion:

symptoms similar to inhalation.

Eves:

slightly irritating sensation and lacrimation.

Skin:

defatting action can cause dermatitis.

Treatment of exposure:

DO NOT ADMINISTER ADRENALIN OR EPINEPHRINE; GET MEDICAL

ATTENTION FOR ALL CASES OF OVEREXPOSURE.

Inhalation:

remove victim to fresh air; apply artificial respiration and/or administer oxygen.

Ingestion:

have victim drink water and induce vomiting; repeat three times; then give one

tablespoon epsom salts in water.

Eyes:

flush thoroughly with water.

Skin:

wash thoroughly with soap and warm water.

Long term health effects:

Vapor (gas) irritant characteristics: Eye and respiratory tract irritant. Vapors cause smarting of the eyes or respiratory system if present in high concentrations. May have a narcotic and anesthetic effect. Liquid or solid irritant characteristics: Severe eye and skin irritant. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin. Absorbed through the skin.

Hazard Classifications

NFPA hazard classifications:

Health Hazards (blue) 2

Flammability (red)

1

Reactivity (yellow)

0

4.2 PHYSICAL HAZARDS

Physical hazards pose a multitude of threats to health and safety on hazardous waste operations sites as well as on a non-hazardous construction sites. Physical hazards are primarily resultant from the site conditions, job requirements, and type of equipment used. The site safety personnel will clearly identify and mark all potential physical hazards on a job site to prevent exposure to workers. Common physical hazards include, but are not limited to, the following:

TABLE 4.2
ACTIVITIES & ASSOCIATED HAZARDS

ACTIVITIES	HAZARDS
Site preparation	Heavy Lifting
Office trailer setup	Traffic
Site restoration	Noise
Demobilization	Heat Stress
	Slip, Trip, Fall
	Electrical
Well drilling	Heavy Lifting
Piping removal	Heavy Equipment
Trenching for new pipe	Excavation
	Noise
	Heat Stress
	Chemical (TCE)
	Slip, Trip, Fall
	Traffic
Installation of electrical components	Excavation
·	Electrical
	Heat Stress
,	Slip, Trip, Fall
	Traffic

Slip, Trip, Fall

Slip, trip, and fall hazards will be minimized by good housekeeping practices. Good housekeeping will include designating storage for job site materials and equipment and making certain that materials and/or equipment not currently in use are stored properly in their designated area. Workers will exercise caution when walking through any work area. Walking and working surfaces will be maintained in an even, unbroken, firm, and dry condition to minimize slips, trips, and falls.

Pinch-Point Hazards

Pinch-point injuries can occur when materials and equipment are moved around the site during mobilization, demobilization, and project operations. Pinch-point injuries can be avoided by following

the correct procedures for moving equipment and materials and by using protective equipment such as heavy gloves and steel-toed boots.

Personal Bodily Injury

Personal bodily injury can result from many different types of physical hazards such as uneven, unstable, or slippery terrain; overhead obstructions; open excavations or ditches; scattered debris; and equipment or tools. Uncontrolled site conditions may cause workers to slip, trip, or fall; become trapped in open excavations; confined in small spaces; and struck or pinched during work operations.

The site safety personnel will clearly designate proper walkways, work areas, and traffic routes to avoid these types of hazards. Overhead obstructions shall be flagged as low-clearance items. Open excavations will be properly shored and barricaded. All miscellaneous debris should be consolidated and barricaded to prevent interference with workers. Miscellaneous tools should be properly placed in safe locations when not in use. Workers should stand clear of operating equipment and remain in sight of the operator when working near machinery. Workers will wear a safety harness and be securely tied off during aboveground activities.

Explosion and Fire

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Mixing incompatible hazardous materials may release ignitable vapors or cause spontaneous combustion. Low-lying areas or local depressions may collect hazardous vapors that are heavier than air. Oxygen-rich atmospheres, sparks, friction-sensitive compounds, refueling operations, or materials confined under pressure may also create explosion or fire hazards.

All materials suspected of having any potential for explosion or fire hazards should be approached with extreme caution. Extended-reach tools will be used to initially handle these types of materials. An oxygen level meter, organic vapor meter, or combustible gas indicator may all be used to assess the hazard of the materials. Evacuation will occur if the 10% LEL is met. Personnel should be have complete skin protection and be wearing full-face respirators. The site safety personnel may adjust the levels of personal protection after assessment of the hazards. Fire extinguishers will be readily available at all site operations at all times. Smoking by personnel on site will only be allowed in a designated smoking areas sufficiently remote from explosion or fire hazards.

** Matches and Flame-producing Devices - Smoking is prohibited; anyone found smoking in the Exclusion Zone will be immediately and permanently barred from the project site.

Oxygen Deficiency

Confined spaces, pits, trenches, or local depressions offer the opportunity for gases that are heavier than air to displace the existing oxygen and accumulate. A chemical reaction, ignition, or flames in confined spaces may use available oxygen that cannot be replenished quickly to the work area. The normal oxygen content of the atmosphere is 20.8%. Worker consciousness and safety is in danger when oxygen levels are reduced to 19.5%. An oxygen level of 16% can be fatal.

In suspect areas, oxygen levels should be monitored continuously with meters that are properly and frequently calibrated by trained personnel. Workers should always wear supplied-air breathing equipment if oxygen levels drop below 19.5%, or receive supplied-air when approaching or working in a suspect area.

Electrical Hazards

Overhead power lines, underground electrical cables, stationary electrical items, lightning, water puddles, or cords and connections to electrical equipment may pose electrical hazards.

These hazards can be avoided by carefully identifying, marking, grounding, or disconnecting all electrical items or equipment on site. Lockout/tagout procedures will be implemented when working on or around electrical equipment. All electrical cords and connections should always be carefully inspected prior to use. Weather conditions should be monitored and work should cease with lightning activity. Stray puddles should be dispersed and allowed to evaporate or avoided when using electrical equipment. Proper clothing and equipment for protection against electrical hazards is described in OSHA 29 CFR Part 1910.137.

Noise

The use of heavy equipment or other construction activity can create noise hazards. Not only does excessive noise impair the hearing of workers, it also interferes with effective lines of communications on the job site. Sudden or unexpected noises may startle, disrupt, or distract workers and lead to other physical hazards.

Workers should be aware of all potential noise hazards at a site. Hearing protection shall be worn if noise is consistently high or exists for extended periods of time. A hand signal system shall be established and airhorns used if noise is expected to interfere with effective communications.

Heat Stress

Workers are particularly vulnerable to heat stress when wearing multiple layers of PPE. Depending on worker clothing and site conditions, heat stress can occur within as little as a 15-minute period. Heat stress can be accelerated due to sunburn, obesity, age, dehydration, sunburn, infection, or diarrhea; lack of physical fitness or acclimatization; or the use of alcohol or drugs. Symptoms of heat stress can be rashes, cramps, excessive perspiration, lack of perspiration in hot conditions, discomfort, or drowsiness.

The site safety personnel and Region Health and Safety Coordinator will determine the appropriate minimum required level of PPE to prevent overdressing, which promotes premature heat stress. If site conditions are conducive to heat stress, the worker's heart rate, fluid loss, and temperature should be monitored frequently. During rest periods, the heart rate should be allowed to recover to less than 90 beats per minute before returning to work. For ambient temperatures above 75 degrees, at least 8 ounces of fluids should be replaced every 90 minutes and more frequently as temperatures rise. If oral temperatures exceed 99.6 degrees, work cycles should be shortened. Shade or well-ventilated/air-conditioned rest areas should be provided for worker refuge to prevent heat stress. A variety of fluid-replenishing liquids, splash or wash water, and towels should remain available to workers.

Heavy equipment

Heavy equipment such as large haul trucks, track excavators, drill rigs, backhoes, compactors, and other machines can create several types of physical hazards caused by noise and visual obstructions.

Equipment operators will be continually aware of all surrounding personnel and obstacles. Workers will verify visual contact with an equipment operator while working near the machine. Equipment and outrigger supports must be properly positioned on solid ground to avoid tipping or sliding into an open excavation. All self-contained equipment will have back-up alarms. Work areas for equipment, haul trucks, and other traffic will be clearly marked and adhered to by all drivers, operators, and workers.

Excavation Hazards

The use of heavy equipment to create trenches or excavations poses potential physical hazards to employees. Excavators, backhoes, or other excavation equipment can cause serious trauma injuries. Such equipment can also roll over, or fall into the excavation in unstable soil, or if too close to the excavation. WRS and any other personnel Onsite are to remain clear of operating heavy equipment to the extent feasible. The swing radius of the back-hoe must be barricaded to prevent employee injury.

Trenches and excavations also pose potential cave-in hazards. <u>UNDER NO CIRCUMSTANCES ARE PERSONNEL TO ENTER AN EXCAVATION GREATER THAN 5 FEET IN DEPTH UNLESS THE WALLS OF THE EXCAVATION HAVE BEEN ADEQUATELY SHORED OR SLOPED BACK TO THE ANGLE OF REPOSE (i.e., 37.5:1 FOR AVERAGE SOIL). Such entry is a violation of WRS policy and Occupational Safety Regulations. Soil stability and the adequacy of shoring or sloping must be determined by a qualified engineer prior to entry into excavations deeper than 5 feet. Entry or work around excavations should comply with this health and safety plan and with WRS SOP regarding shoring, sloping, escape, and other excavation concerns.</u>

Soils from the excavation must be placed greater than 2 feet from the top of the excavation. Even if no entry is to occur, a cave in could topple equipment and injure personnel. Therefore traffic and other sources of vibrations near by must be controlled to the extent feasible. Excavations should be barricaded to prevent personnel from venturing too close and falling in. Liquid accumulation in the excavation may also contribute to cave ins. Pumping should be used to avoid the accumulation of water or other liquids. Air testing to verify a safe atmosphere is required when personnel will enter an excavation.

Traffic Hazards

WRS will supply to TNRCC and implement a Texas DOT approved traffic control plan which is required by contract prior any work is conducted in the area of Loop 610 south near the Almeda exit. This plan will list out all traffic precautions required during all phases of the work in the DOT right-of-way. WRS workers will comply with all rules and regulation set forth in the approved plan. Every day during the daily safety meeting traffic control and dangers will be addressed, this should keep all workers alert of the potential hazards associated with working in a traffic congested area.



Contaminated debris and or small quantities of soil will be collected and properly containerized in a DOT-approved drums. Drums will have proper DOT labeling and markings (accumulation date, contents, generator, haz class etc.) placed on each drum. Drums will be tightly sealed and placed in a temporary storage location which will be designated by WRS Project Manager and TNRCC representative. Stored drums will be inventoried and inspected daily until disposition of contents is identified.

4.3 BIOLOGICAL HAZARDS

The biological hazards that response personnel may encounter are animal bites, insect stings and contact with local flora.

4.3.1 Bites and Stings

Animal bites and insect stings are usually nuisances (i.e. localized swelling, itching, and minor pain) that can be handled with first-aid treatments. The bites of certain snakes, lizards, spiders, and scorpions contain sufficient poison to warrant medical attention. There are diseases that can be transmitted by insect and animal bites. Examples are Rocky Mountain spotted fever, lyme disease (tick), rabies (mainly dogs, skunks and foxes), malaria, and equine encephalitis (mosquito). The greatest hazard and most common cause of fatalities from animal bites, particularly from bees, wasps, and spiders, is a sensitivity reaction. Anaphylactic shock due to stings can lead to severe reactions in the circulatory, respiratory, and central nervous systems, which can also result in death.

In addition, the project sites are located in a geographic area where lyme disease and rabies are possible. Lyme disease is spread primarily by a very small tick — the deer tick. It can be found near wooded areas, tall grass and brush. Although the disease is rarely fatal, it can cause flu-like symptoms, arthritis, heart arrhythmia's, facial palsy, severe headaches, and loss of sensation. Protection against the tick consists of wearing clothing that covers the whole body, tucking pant legs into boots or socks and tucking a long-sleeve shirt into pants. A white tyvek is recommended for protection. Use of repellents containing DEET is also effective. It is also important to frequently check for the ticks, which are about the size of a period on this page. Some warning signs include a "bull's-eye" rash that may appear days to weeks after the bite, flu-like symptoms, swelling and pain in joints and, less common, heart arrhythmia, weakness in legs, facial paralysis and numbness. If employees feel they may have contracted the disease, they must notify the WRS SHSO.

If an animal bite occurs, the WRS SHSO must be notified. Steps will then be taken to locate the animal and contact the local animal shelter in order to determine if the animal has rabies.

4.3.2 Contact With Local Flora

The most dangerous toxic effects from plants are due to ingestion of nuts, fruits, or leaves. Consequently, personnel are prohibited from eating any fruits, nuts, or other plant material which may grow on the site. Of more concern to response personnel are certain plants including poison ivy, poison



oak, and poison sumac, which produce adverse effects from direct contact. The usual effect is dermatitis-inflammation of the skin. The protective clothing and decontamination procedures used for chemicals reduce the exposure risk to the plant toxins. Cleaning the skin thoroughly with soap and warm water immediately after contact will reduce risk.

4.4 DECONTAMINATION

4.4.1 Decontamination Plan

During all drilling and contaminated pipe removal activities the following steps will take place for decontaminating personnel and equipment.

Set up a Contamination Reduction Zone

The Contamination Reduction Zone (CRZ) is a zone of reduced contamination surrounding the Exclusion Zone. It is designed and located to reduce the risk of contaminating the clean, Support Zone. Entry and exit of all personnel and equipment working in the Exclusion Zone will be through the designated corridors in the CRZ. The entry corridor will contain PPE required for personnel to don prior to entering the Exclusion Zone. The exit corridor will be where all decontamination occurs and will contain items necessary for proper decontamination of personnel and heavy equipment. The CRZ will be equipped to handle emergency treatment, contain backup PPE supplies, and provide worker rest areas. Communications will be constantly maintained between personnel working in the CRZ and personnel in the Exclusion Zone.

Decontamination

All personnel and equipment leaving the Exclusion Zone will be decontaminated in the CRZ according to procedures provided below. These steps are an outline of procedures detailed in WRS Health and Safety Manual and those described by OSHA and the EPA. The WRS Project Manager will verify that all the necessary decontamination procedures are being followed properly in the field.

Personnel assisting in decontamination will be dressed in one level of PPE lower than the level of PPE worn by workers in the Exclusion Zone. For example, if workers in the Exclusion Zone are wearing Level A PPE, personnel assisting in decontamination will wear Level B PPE. As a minimum, all personnel assisting with decontamination must at least wear Level D PPE if no contamination exists in the CRZ.

Personnel Decontamination

Personnel leaving the Exclusion Zone will enter the CRZ through the designated corridor. Decontamination will follow a specified procedure and pathway. After decontamination in the CRZ, personnel hygiene can be performed in the Support Zone. The following are outlines of minimum decontamination procedures required for levels "C" and "D" PPE, levels "A" and "B" are not expected to be needed on site therefore they are not listed in this plan:

Level C & Level D+

- 1. Equipment drop: deposit used tools on plastic while still in the Exclusion Zone
- 2. Outer boot and outer glove removal
- 3. Removal of outer garment

- 4. Removal of respirator, inner boots, and inner gloves all respirators will be properly washed and stored.
- 5. Field wash: personal hygiene performed in the Support Zone

Level D

- 1. Equipment drop: deposit used tools on plastic while still in the Exclusion Zone
- 2. Outer boot and outer glove removal; if worn with level D
- 3. Removal of outer garment, inner boots, and inner gloves
- 4. Field wash: personal hygiene performed in the Support Zone

All disposable clothing, tools, plastic, spent solvents, and rinse water will be placed into DOT-Approved containers.

Decontamination during Medical Emergencies

Basic Considerations:

Part of overall planning for incident response is managing medical emergencies. The plan should provide for:

- Some response team members fully trained in first aid and CPR.
- Arrangements with the nearest medical facility for transportation and treatment of injured, and for treatment of personnel suffering from exposure to chemicals.
- Emergency eye washes, showers, and/or wash stations.
- First aid kits, blankets, stretcher, and resuscitator.

In addition, the plan should establish methods for decontaminating personnel with medical problems and injuries. There is the possibility that the decontamination may aggravate or cause more serious health effects. If prompt life-saving first aid and medical treatment is required, decontamination procedures should be omitted. Whenever possible, response, response personnel should accompany contaminated victims to the medical facility to advise on matters involving decontamination.

Physical Injury:

Physical injuries can range from a sprained ankle to a compound fracture, from a minor cut to massive bleeding. Depending on the seriousness of the injury, treatment may be given at the site by trained response personnel. For more serious injuries, additional assistance may be required at the site or the victim may have to be treated at a medical facility.

Life-saving care should be instituted immediately without considering decontamination. The outside garments can be removed (depending on the weather) if they do not cause delays, interfere with treatment, or aggravate the problem. Respirators and backpack assemblies must always be removed. Fully encapsulating suits or chemical-resistance clothing can be cut away. If the outer contaminated garments cannot be safely removed, the individual should be wrapped in plastic, rubber, or blanket to help prevent contaminating the inside of ambulances and medical personnel. Outside garments are then removed at the medical facility. No attempt should be made to wash or rinse the victim at the site. One exception would be if it is known that the individual has been contaminated with an extremely toxic or

corrosive material which could also cause severe injury or loss of life. For minor medical problems or injuries, the normal decontamination procedure should be followed.

Chemical Exposure: Exposure to chemicals can be divided into two categories:

- Injuries from direct contact, such as acid burns or inhalation of toxic chemicals.
- Potential injury due to gross contamination on clothing or equipment.

For inhaled contaminants, treatment by a qualified physicians must be obtained. If the contaminant is on the skin or in the eyes, immediate measures must be taken to counteract the substance's effect. First aid treatment usually is flooding the affected area with water; however, for a few chemicals, water may cause more severe problems.

When protective clothing is grossly contaminated, contaminants may be transferred to treatment personnel or the wearer and cause injuries. Unless severe medical problems have occurred simultaneously with splashes, the protective clothing should be washed off as rapidly as possible and carefully removed.

Equipment Decontamination

All heavy equipment and re-usable tools will be removed from the Exclusion Zone through the designated corridor and decontaminated in the CRZ. Decontamination will be performed by initially brushing off soil onto plastic with brooms followed by washing with Alconox detergent and rinsing. A visual inspection will be performed to verify of each piece of equipment to insure proper decontamination prior to removal of equipment and tools from the CRZ.

The equipment decontamination pad will consist of two layers of six mil plastic, with the pad berm made from rolling lumber within edges of the plastic. By berming this pad in this manner, this will contain all decontamination liquids and avoid the collection of any run-on site water. This pad will be large enough to place the excavator bucket and any other tools over it and have plenty of room to decontaminate all equipment.

5.0 PERSONAL PROTECTIVE EQUIPMENT

All personnel entering a hazardous waste work site shall wear PPE selected by a trained individual to protect against the numerous potential chemical and physical hazards. PPE does not provide complete immunity to all hazards, but when worn properly, offers substantial isolation from various hazards and minimizes the risk of exposure. PPE is most effective when all other health and safety procedures described in this plan are also followed.

The proper ensemble of PPE has been selected for this job site by the Regional Health and Safety Coordinator after reviewing the chemical and physical hazards associated with the work activities listed in the RFP. Levels of PPE can be downgraded upon approval of the Regional Health and Safety Coordinator after evaluation of monitoring results. For this project Levels C, Modified Level D and Level D have been selected.

5.1 PROTECTIVE CLOTHING\EQUIPMENT

LEVEL "C" PROTECTION:

Level "C" Personal Protection for this site will consist of the following:

- Outer chemical protective coveralls
- Full-face air purifying respirator equipped with chemical cartridge (organic vapor/acid gas cartridges/HEPA combination)
- Outer gloves (taped to suit at the wrists) (Nitrile)
- Inner latex gloves
- Steel-toe work boots
- Neoprene rubber overboots (duct-taped to outer suit)
- Hardhat
- Hearing protection, as needed

Criteria for use:

- > 19.5% Oxygen
- ≥ 25 ppm and < 200 ppm total organic vapors
- $\geq 0.5 \text{ mg/m}^3 \text{ and } \leq 2.5 \text{ mg/m}^3 \text{ total dust}$

Inappropriate applications:

Work in atmospheres containing airborne concentrations of contaminants in excess of the upper limit action levels listed above, oxygen deficient atmospheres, and IDLH conditions. Work with potentially contaminated liquids and/or muddy soils.

MODIFIED LEVEL "D" PROTECTION

Level "D+" Personal Protection within exclusion zones for this site will consist of the following:

- Outer chemical protective coveralls
- Outer gloves (taped to suit at the wrists) (Nitrile)
- Inner latex gloves
- Neoprene rubber overboots (duct-taped to outer suit)
- Safety glasses with side shields
- Steel-toe boots
- Hardhat
- Hearing protection, as needed

Criteria for use:

- > 19.5% Oxygen
- <25 ppm total organic vapors
- < 0.5 mg/m3 total dust

Inappropriate Applications:

Work in atmospheres containing airborne concentrations of contaminants in excess of the action limits listed above. Work with potentially contaminated liquids and/or muddy soils.

LEVEL "D" PROTECTION:

Level "D" Personal Protection for this site will consist of the following:

- Outer coveralls or work clothes
- Safety glasses with side shields
- Steel-toe work boots
- Hardhat
- Hearing protection, if needed

Criteria for use:

- > 19.5% Oxygen
- < 25 ppm total organic vapors
- < 0.5 mg/m³ total dust

Inappropriate Applications:

Work in atmospheres containing airborne concentrations of contaminants in excess of the action limits listed above. Any work with potentially contaminated soils, liquids, PPE and equipment.

Add-ons

When working with potentially contaminated liquids and/or muddy soils the following PPE will be added to the above mentioned Levels of Protection:

- Impermeable outer coverall (Saranex); and
- Splash shield.

Level D is minimal protection used on sites where physical hazards are minimally threatening or absent. Details of level D is as follows:

5.3 REQUIRED SITE-SPECIFIC PPE

The initial level of PPE selected by the Region Health and Safety Coordinator for this site is as follows:

TABLE 5-1 Level of Protection Planned for all Activities at				
The Sol Lynn/Industrial Transformer Super Fund Site				
Activity/Task	Initial Levels of Protection			
Site Mobilization	Level D			
Site Preparation	Level D (Including Cotton Gloves)			
Well Drilling & installation	Modified Level D and/or Level C			
Pipe removal, decontamination and disposal	Level Modified D and/or Level C*			
Placement of new piping	Level D			
Installation of Electrical Components	Level D			
Site Restoration Work	Level D (Including Cotton Gloves)			
Demobilization	Level D			

NOTE: Levels of protection may be upgraded or downgraded as directed by the SHSO based on results of real-time air monitoring during task execution and Table 8-1 for action levels. A downgrade requires the Site Health and Safety Coordinator and/or WRS Health and Safety Manager's approval before it can be effective.

6.0 AIR MONITORING

This section explains the general concepts of the environmental exposure and personal monitoring program and specifies the surveillance activities to be performed during the tasks. In all cases, personnel performing monitoring activities will be trained in the use of monitoring equipment as part of the offsite training. Manufacturers' maintenance and calibration manuals will be kept in the office trailer to ensure proper instrument function is maintained.

6.1 AIR MONITORING

The purpose of conducting air monitoring is to quantify concentrations of airborne contaminants in order to select the appropriate level of worker protection needed, and to monitor the potential migration of contaminants off site. During remediation activities at the site, air monitoring will target the following areas:

- Drilling areas
- Pipe removal areas
- The Site Perimeter

Daily meteorological data (visual) will be obtained. This information will include the daily temperature, wind direction, rainfall, and cloud cover. Prior to any ground intrusion, the SHSO or his designee will perform background air monitoring of the exclusion zone. This monitoring will include using an organic vapor monitor (OVM) during these activities. The SHSO will interrupt the activities at various intervals

^{*} If airborne contaminants exceed the action levels all personnel will upgrade to the next level of protection.

to screen the area for fugitive contaminants. All instrument reading and calibrations will be documented on the air monitoring log and calibration log.

6.1.1 Direct-Reading Instrument Measurements

The SHSO will conduct monitoring using the following direct-reading instruments:

Organic Vapor Monitor (OVM)

The instrument will be utilized to assess the work area prior to commencement of activities, as well as throughout the various stages of remediation activities.

Measurements will be documented and changes in PPE will be made, if necessary, to reflect required protection.

If air monitoring with the OVM indicates that organic vapor concentrations in the work area exceed or are approaching 25 ppm, then respiratory protection is to be upgraded to air purifying respirators. If organic vapor concentrations are below 25 ppm then respiratory protection can be eliminated provided that air monitoring with the OVM continues to assess work conditions.

The direct reading units will be calibrated according to manufacturer's instructions prior to field use. Calibration of the units will be performed before monitoring each day that the instrument is used. The initial calibration will be recorded on the instrument calibration log. Daily calibration checks, areas where used, instrument settings, and readings obtained will be recorded in the site safety and health logbook. The battery in each unit will be recharged after use to maintain a good charge.

TABLE 6-1						
AIR MONITORING ACTION LEVELS						
TASK	HAZARD IDENTIFIED	FREQUENCY	INSTRUMENTS	COMMENTS/ ACTION LEVEL		
Soil Excavation	Volatile organic compound (TCE)	Initially and periodically during all drilling and contaminated pipe removal (excavations)	HNu/OVM 10.2 eV	0-25 ppm - D+ >25 ppm Air purifying respirators (Organic Vapor-Acid Gas Type H cartridges.) above 200 ppm - stop work		

The WRS Project Manager or SHSO have the authority to stop work when unsafe conditions are determined to exist onsite.

NOTES:

Values given represent Breathing Zone Action Levels

6.2 TIME WEIGHTED AVERAGE SAMPLING

Time-weighted average (TWA) sampling of employee breathing zones is not anticipated to be necessary. Should the use of respiratory protective equipment become necessary as indicted by real time monitoring a TWA sampling plan will be developed for determining specific airborne contaminants over the duration of the work shift and to make comparisons with established occupational exposure limits.

7.0 TRAINING

All WRS employee's, regardless of their job function, have received training in accordance with the regulations stated by OSHA 29 CFR 1910.120. Site specific training will be conducted on a daily basis during the morning health and safety meetings. Varying intensities of training are provided according to job function. Initial training consisted of a formal 40-hour or 24-hour hazardous waste operations training session according to the following requirements, and was taught by a certified instructor. Most subcontractors working on the project will require OSHA 29 CFR 1910.120 training. Although the training is not required for such subcontractors where no potential contamination is expected. All work completed by subcontractors will be supervised by WRS' SHSO:

• 40-Hour Training

All site workers, such as laborers, equipment operators, and supervisory personnel, who have the potential of exposure to hazardous waste, hazardous materials, or physical and chemical hazards have received a minimum of 40 hours of instruction plus three days of actual field experience under the supervision of a certified instructor. If exposure potential to TLV concentrations of a contaminant exists and a respirator may be needed, the 40-hour training is mandatory.

24-Hour Training

Workers with limited or occasional job functions who are unlikely to be exposed to TLV concentrations of a contaminant, received 24 hours of instruction plus one day of field experience. The 24-hour training requirement also applies to sites that have been fully characterized and there is no indication of possible exposure to TLV concentrations of a contaminant or the need to wear a respirator.

Management and Supervisor Training

On-site management and supervisors directly responsible for supervising workers engaged in hazardous waste site operations receive the 40-hour training plus an additional eight hours of specialized training, which at a minimum covers topics in the WRS health and safety program, employee training program, PPE program, spill response program, and hazard monitoring procedures.

Refresher Training

All hazardous waste site workers receive an annual, 8-hour refresher course to review hazards recognition and methods of reducing exposure risk to hazards.

Documents indicating successful completion of a training course will be issued. The Project Manager will collect a copy of these documents from all workers assigned to the this site, including subcontractors, to verify current compliance with training requirements.

The following topics, at a minimum, were contained in the above training sessions and will be discussed again prior to commencing site activities:

- Names of all site safety personnel
- All identified and suspected potential physical and chemical hazards at the job site
- Proper use of PPE
- Work practices that can minimize exposure to hazards
- Proper use of equipment to minimize exposure to hazards
- Medical surveillance requirements (described in Section 8.0)
- Site controls (described in Section 9.0)
- Decontamination procedures (described in Section 10.0)
- Emergency response procedures (described in Section 11.0)
- Confined entry procedures
- Spill response plan

Other training procedures that will be conducted during site activities include:

- Daily, documented "tailgate" meetings to discuss identified hazards or risk-reducing methods
- Discussion and review of the proper procedure to report an accident
- Daily discussion of air monitoring and associated chemical hazards
- Inclusion of all WRS subcontractors in pre-job and on-the job safety meetings

8.0 MEDICAL SURVEILLANCE PROGRAM

In accordance with OSHA 1910.120, WRS institutes a medical surveillance program for all of its employees who are hazardous waste site workers, are required to wear a respirator, or have the potential of being exposed to chemical hazards or the TLV concentrations of a contaminant. This program is designed to assess and monitor the health and fitness of workers, provide emergency or other treatment as needed, and maintain accurate records for future reference. The comprehensive medical surveillance program addresses the following requirements, with details of each described below:

• Content of the examinations

The medical examination performed on a worker will include: the worker's medical and work history; information containing symptoms of potential exposure to chemical hazards; and the physical fitness and ability of the worker to perform hazardous waste site operations and wear a respirator. It will also be a means of providing baseline monitoring to determine if a worker has been exposed to a particular hazard. A description of the worker's anticipated site activities will be provided to the attending physician. After the examination, the physician will provide his written medical opinion of the ability of the worker to perform the indicated activities.

All medical examinations will be performed by physicians who are certified in occupational medicine.

· Frequency of medical examinations

Medical examinations of hazardous waste site workers are required at least: prior to an assignment; once every 12 months; at termination of employment; when baseline monitoring is necessary for a particular suspected toxic; at the conclusion of a project where baseline monitoring was necessary; and as soon as possible if symptoms or illness has developed from a possible overexposure to a hazard. In some cases, the attending physician may require more frequent examinations if medically necessary.

Record keeping

All written medical records and other medical documentation of a worker will be retained for the duration of employment plus 30 years. Records will contain information on medical examinations, descriptions of exposure to any hazardous substances, and a description of the hazardous substance to which a worker was exposed.

9.0 SITE CONTROLS

Site controls are a combination of pre-job site preparations, delineation of control zones, and implementation of safe work practices for the purpose of locating known or suspected hazards and reducing the risk of exposure to these hazards.

9.1 SITE PREPARATIONS

Upon arrival on site and prior to commencing actual work activities, the Project Manager and site safety personnel will:

- Locate and identify physical hazards
- Delineate emergency treatment areas, control and escape zones, traffic routes, and staging areas
- Identify debris to consolidate or avoid
- Set up security and site safeguards

If applicable to the project, a site map may be included in the Work Plan and made available to all workers for reference during the job. The map can be used to identify control zones and traffic routes in addition to assisting in project activity organization and task assignments.

9.2 CONTROL ZONES

To prevent the spread of contamination into clean areas, the Project Manager and site safety personnel have delineated boundaries to three control zones: the Exclusion Zone, the Contamination Reduction Zone, and the Support Zone. The boundaries to these zones may be adjusted if site conditions change. The proper level of PPE to be worn by personnel in each zone has been determined by the Region Health and Safety Coordinator.

Exclusion Zone

The portion of the site where hazardous waste or hazardous materials are handled directly is designated as the Exclusion Zone, which poses the greatest risk of exposure to hazards on the site. In the Exclusion Zone, hazardous wastes or materials are not yet contained and exist exposed to the environment, thereby presenting a threat to human health. The risk of physical hazards will also be increased in the exclusion zone by the presence of heavy equipment. The highest level of PPE designated for the site shall be worn by all personnel authorized to enter the Exclusion Zone. Those personnel will be current in all required hazardous waste operations and emergency response training.

Contamination Reduction Zone

The Contamination Reduction Zone (CRZ) is a zone of reduced contamination surrounding the Exclusion Zone. It is designed and located to reduce the risk of contaminating the clean, Support Zone. Entry and exit of all personnel and equipment working in the Exclusion Zone will be through the designated corridors in the CRZ. The entry corridor will contain PPE required for personnel to don prior to entering the Exclusion Zone. The exit corridor will be where all decontamination occurs and will contain items necessary for proper decontamination of personnel and heavy equipment. The CRZ will be equipped to handle emergency treatment, contain backup PPE supplies, and provide worker rest areas. Communications will be constantly maintained between personnel working in the CRZ and personnel in the Exclusion Zone.

Support Zone

The Support Zone is separated from the Exclusion Zone by the CRZ zone. All personnel and equipment entering the Support Zone from the CRZ will be properly and completely decontaminated. All site administration and other duties not requiring PPE greater than Level D will occur in the Support Zone.

9.3 SAFE WORK PRACTICES

After site preparations and delineation of control zones, safe work practices must be implemented to further reduce the risk of exposure to site hazards. In addition to the methods of reducing risk to physical hazards as described in Section 4.0, the following safe work practices are also required:

Communications: the use of radios, telephones, approved hand signals, and air horns; proper use
and location of signs for traffic routes, warnings, or other information promoting job safety

- MSDS: for all site chemicals will be available to all site personnel as per Hazard Communications requirements
- Buddy system: working in pairs or threes in the exclusion zone; maintaining verbal or visual contact with designated "buddy" in Exclusion Zone
- Equipment and tools: installation of proper guards; inspections prior to use
- Confined spaces: requires additional specialized training
- Fire/explosion: extinguish small fires immediately; if safety is jeopardized, leave the area and notify proper authorities
- Spill: contain immediately; follow procedures in WRS "Spill Response Plan"

当。	地位的 Table Table Tool Table Ta
Hands around throat	"Out of air/can't breathe"
Thumbs up	"OK/yes"
Thumbs down	"Negative/no"
Hands on top of head	"Need assistance"
Grip partner's hand or waist	"Leave area immediately"

9.4 MEDICAL AWARENESS

Prior to beginning work on site, all personnel will be instructed on how and where to obtain emergency medical attention. The following medical awareness items, among other safety issues, will be discussed in the pre-job meeting:

- Emergency assistance telephone numbers (Table 9.1)
- Map to nearest hospital or medical facility (Figure 9.1)
- Names of personnel with CPR and first aid training
- Location of mobile telephone in the Support Zone location of site telephone
- Location of emergency eyewash station
- Rules and regulations for the Exclusion Zone (Table 9.2)

Copies of all maps and emergency phone lists will be made available to all site workers, posted in conspicuous locations around the job site, and placed in all project vehicles.

TABLE 9.1

EMERGENCY ASSISTANCE TELEPHONE LIST

Hospital:	HCA Medical Center Hospital 8081 Greenbriar Houston, Texas		(713) 790-8100
Ambulance/Res	scue Squad	911	
Fire	1	911	
Local Police		911	
State Police		911	
Westinghouse J	Remediation Services:		
•	Murray Office		(801) 265-2323
	Houston Office		(281) 820-0972
USEPA (24 ho	ur hotline)		(800) 424-8802
EPA (RCRA h			(800) 424-9555
EPA (TSCA H	otline)		(202) 554-1404
Region 6 EPA			(214) 655-6444
EPA Emergence	y Response Team		(303) 293-1788
CHEMTREC:			
24 Hou	urs		(800) 424-9300
EPA (F	RCRA - Superfund Hotline)		(800) 424-9555
Center for Dise	ase Control		(404) 639-3311
National Respo	onse Center (NRC)		(800) 424-8802
U.S. Coast Gua	ard		(800) 424-8802

GENERAL EMERGENCY RESPONSE: 911

FIGURE 9.1

ROUTE TO NEAREST MEDICAL FACILITY

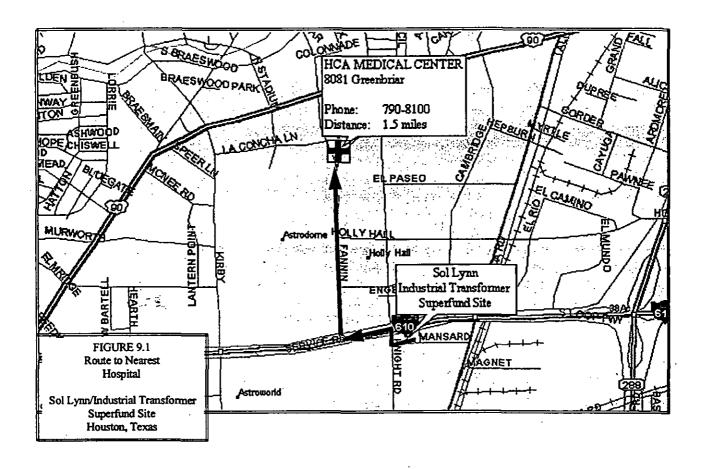


TABLE 9.2

STANDING ORDERS FOR EXCLUSION ZONE and CONTAMINATION REDUCTION ZONE (CRZ)

- No smoking eating, or drinking in this zone. Eating, drinking, chewing gum or tobacco, smoking, or any practice that increases the probability of hand-to-mouth transfer and ingestion of any material is prohibited in any area designated as a Decontamination Zone or Exclusion Zone.
- No horse play.
- No matches or lighters in this zone.
- Check-in on entrance to this zone. Check-out on exit from this zone. Entrance and exit locations
 will be designated and emergency escape routes delineated. Warning signals for site evacuation
 have been established.
- Implement the communication system. Communications using radios, hand signals, signs, or
 other means will be maintained between work crew members at all times. Emergency
 communication will be prearranged in case of radio failure, necessity for evacuation off site, or
 other reasons.
- Wear the appropriate level of protection as defined in the Safety Plan.
- Work will only be performed during daylight hours unless adequate lighting is available.
- Contact with known or suspected contaminated surfaces should be avoided. Whenever possible, there will be no walking through puddles or discolored surfaces, kneeling on ground; or leaning, sitting or placing equipment on drums, containers, or the ground.
- Prescribed drugs should not be taken by personnel where the potential for adsorption, inhalation, or ingestion of toxic substances exists, unless specifically approved by a qualified physician.
- All respirator wearers must be certified as being capable of wearing respiratory protection (physician's approval, fit-tested) while performing their assigned tasks. All respirator wearers must have been fit-tested within the past 12 months with the make and size respirator to be worn.
 No facial hair is allowed that would interfere with respirator fit.
- Work areas for all operational activities will clearly be established and clearly delineated on the site Health and Safety Plan.
- Work areas and decontamination procedures will be established based on expected site conditions and clearly delineated in the site Health and Safety Plan.

Personnel and equipment in the Exclusion Zone(s) will be minimized, consistent with effective site operations.

10.0 EMERGENCY RESPONSE PROCEDURES

WRS's priority is to perform the job in the safest manner possible to avoid exposure to any physical hazards and chemical spills. The Project Manager will carefully supervise all personnel and operations and strictly enforce the prescribed safety procedures. The Regional Health and Safety Coordinator will audit project operations to determine if the prescribed safety standards and procedures are appropriate for the job. However, emergency situations may arise on site requiring immediate attention by site personnel. Therefore, WRS has specified procedures to handle emergency situations and trained all workers in these methods.

Emergency Response is the ability to provide a quick, mitigating response to personnel or the environment in the event of exposure to a hazard. Proper emergency response will utilize the health and safety procedures described in this HASP.

10.1 RESPONSE PREPARATIONS

In order to provide proper emergency response, personnel are thoroughly prepared to handle an emergency situation and aware that one can occur at any time during the job. Site personnel are familiar with the following items so that they can provide the proper emergency response:

- Site maps: know the designated escape routes and alternate escape routes
- Personnel: know the proper chain-of-command and who to contact immediately in an emergency
- Communications: know the hand signals and locations of radios, telephones, and airhorns
- Mental awareness: know the potential hazards and have the ability to recognize these hazards
- Health and Safety: know the health and safety procedures stated in this HASP
- Spill Response: know the procedures in the WRS Spill Response Plan

The following emergency equipment will remain on site and in the Exclusion Zone during site operations:

- First Aid Kit(s)
- Fire extinguisher(s)
- Mobile or public telephones(s)
- Spill response/recovery equipment

10.2 RESPONSE ACTIONS

If an emergency situation arises on a project site, personnel will make a quick assessment of the hazard exposure and then implement the following simple procedures to ensure proper mitigation:

- 1. Communicate: notify the Project Manager, who will determine the proper authorities to notify
- 2. Evaluate: determine the degree of personal safety and safety of nearby site personnel
- 3. Attend: if safe to do so, help others who may need it

4. Evacuate: if the area is not safe, leave immediately through designated escape routes; if others were helped, remove them from the area as soon as it safe to do so

In the event of a spill or leak, personnel will notify the Project Manager; attempt to stop the source; and contain the material.

In the event of a fire or explosion, personnel will first notify the Project Manager, then contain or control the situation with on-site resources if health and safety are not in danger. If the situation cannot be controlled in this manner, the local fire department should be contacted immediately. The Project Manager will provide details concerning the source, nature of materials involved, and location of contaminated or hazardous materials on site.

If evacuation is necessary, an evacuation alarm notification should be made by sounding one continuous blast on an airhorn, supplemented by using hand-held site radios to notify personnel. Evacuation should be to a pre-determined location and occur upwind of any activities. Personnel must quickly proceed with their designated "buddy" or team member through the evacuation route to the designated evacuation location and await further instructions from the Project Manager.

If an emergency situation occurs in the Exclusion Zone and proper decontamination is not possible, the personnel should be wrapped in blankets or plastic when being removed from the Exclusion Zone. The Project Manager, site safety personnel, and safety personnel in contact by telephone, will determine the procedures to control or contain the hazard. Site workers will wait to receive further instructions from the Project Manager. Proper emergency response requires common sense and the ability to quickly evaluate the situation without panic.

10.3 RESPONSE NOTIFICATION

The Project Manager will report all health and safety incidents to the client. Depending upon the magnitude of a spill, Federal, State, and local agencies will also be notified. Incidents with quantities exceeding the following parameters are reportable:

- Known Reportable Quantities (RQs)
- Quantities producing a discoloring sheen or those with the potential to contaminate site waters
- Liquid quantities producing a surface pooling or puddling effect
- Solids misplaced during handling or transportation operations

Proper response may also involve a meeting with client representatives, the EPA, or a notification of the National Response Center (NRC) in Washington, D.C. of a nearby population is threatened. The WRS Project Manager will provide the following information to the proper authorities when required:

- Name, address, and telephone number of person reporting and of party responsible for the incident
- Date, time, and location of the incident
- Details on the incident including: type and quantity of material involved; source or cause
- Current conditions: weather; evacuation procedures; injuries or fatalities; estimated damage
- Description of clean-up action or other mitigation procedures

All WRS internal communications for reporting an incident will be through the Project Manager. Notifications of an incident occurring during off-hours will be to the Project Manager at a pre-determined location or telephone number. The Project Manager will then confirm the identity of the person making the notification; physically view the site if necessary to assess the situation; and begin notifying the proper authorities. Communications for parities outside of WRS will be conducted by the WRS Project Manager.

In summary, the following items are required of personnel in order to successfully respond to an emergency situation:

- Always remain aware of potential hazards and use methods to avoid them
- Use common sense and have the ability to avoid panic
- Thoroughly assess a hazardous incident and be prepared to provide details to authorities
- The Region Health and Safety Coordinator will evaluate site conditions through audits to determine if the specified emergency procedures remain appropriate for the site conditions; revisions will be done, if necessary, with proper approval.

Sol I	ynn/Industrial Transformer Site S	necific Health & Safety Plan
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Form 10.1 ACKNOWLEDGMENT FORM

Pre-Job Meeting

I have read, understand and agree to the provisions set forth by this Site Specific Health and Safety Plan which was developed for the Sol Lynn/Industrial Transformer Superfund remediation project.

I realize that failure to comply with all rules and SOPs set forth by this plan can and will result in immediate removal from the site.

	[date] at	[location].
<u>Name</u>	<u>Signature</u>	
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•	•	,
nt name/title of person holding meeti	ing	
signature	date	



4120 South 500 West Salt Lake City, Utah 84123 (801) 265-2323 Fax: (801) 265-2397

ON-SITE DAILY SAFETY MEETING RECORD

			Report #	‡
DD O TO COMMANDE TO COMMANDE	•			
PROJECT NAME/LOCATION:				
JOB NUMBER:	DATE:		TIME:	
CONDUCTED BY:				
TOPICS OF DISCUSSION (DAILY	ACTIVITIES &	& ON-SITE I	HAZARDS)	
				
		 		
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PERSONAL PROTECTION FOR T	HE DAY:			
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ACCIDENTS ON LAST DAY WOR				
IF YES, DESCRIBE:	<u>.</u>			
				
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Distribution:

Project File Copy

Client Copy

H & S Dept. Copy

FIELD PROCEDURE CHANGE AUTHORIZATION FORM

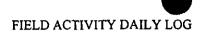
HASP Section Number to be Changed:	
Date:	
Duration of Authorization Requested:	Today Only: Date:
	Duration of Task:
Description of Procedure Modification:	
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Justifications:	
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Person Requesting Change:	
Title:	
Authorization Received From:	
Title:	
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NOTE: All signatures of those named above must be obtained within 48 hours of verbal authorization

Personal & Background Informatio	n							
1: Case Number 2: Soc. Sec. No.	3. Name (Last name, first ii	itlal)	5.Age					
6. Sex 7. Branch	8. Job or Site	Name	9. Job Number					
11. Time of Accident 12. Shift Works 11. Time of Accident 12. Shift Works 13. Time of Accident 12. Shift Works	ed 13. Date of Ac Month D	ay Year Month Day Yea						
16. Occupation at Accident Time	17. Regular Occupat		mber of Others ured in Accident					
19. Nature of Injuries (Bruise, Strain, etc.)		20. Injured Body Part (left index						
21. Names of Others Involved in Accident		22. Names of Others Injured I	n Accident					
Accident Description and Related I	nformation							
23, Chemicals Involved in Accident	_	xact Location of Accident ketch on Back)	25. On WRS Premises? ☐ Yes ☐ No					
26. Activity Injured was doing at time of acc —Try to Identify job in three words	cident or illness (operate	ing backhoe, unloading drums, etc.)						
Use no more than 30 spaces	1111111	<u> </u>						
27. What Occurred (Use single line descriptive se	entences to tell the story of v	rhat occurred)						
28. Check Type of Accident (Check one) a. Struck by c. Contacted by	☐ e. Trapped in	☐ g. Caught between ☐ í, Diff	erent level fall					
☐ b. Struck against ☐ d. Contact with	f. Caught on		ain/overexertion D I Other					
29. Accident Agent (Limit to 21 spaces)		30. Contact Agent (Limit to 22 s						
(i.e., equipment, machine, hand tool)	<u> </u>	(i.e., machine part or material contact	ting)					
Analysis of Accident Causes								
UNSAFE ACTIONS		UNSAFE CONDITIONS						
31. What did employee do or fail to do that to accident? (Check no more than 2, give details o			equipment or job site caused or ck no more than 2, give details on reverse)					
☐ b. Failure to make secure ☐ j. Ridin ☐ c. Operating unsafe speed ☐ k. Took ☐ d. Failure to warn/signal ☐ I. Horse ☐ e. Nullified safety device ☐ m. No i ☐ f. Used defective equipment ☐ n. Unsafe	re to make inoperative g hazardous equipment c unsafe position eplay, distractive protective equip, worn afe job procedure insafe action	☐ a. Inadequate guard/Safety device ☐ b. Hazardous personal attire ☐ c. Inadequate warning system ☐ d. Fire or Explosion hazard ☐ e. Unsecured against movement ☐ f. Poor housekeeping ☐ g. Protruding object	☐ i. Hazardous arrange/storage ☐ j. Defective tools/equipment ☐ k. Atmospheric condition					
33. What caused or influenced unsafe a		34. What caused or influence	ed unsafe condition you identified					
above? (Answer only if item 32 applies. Check n	o more than 2)	above? (Answer only if item 33	applies. Check no more than 2)					
□ b. Inattention to hazard □ i. Influe □ c. Unaware of safe method □ j. Influe □ d. Low level job skill □ k. Defe □ e. Tried to gain or save time □ i. Influe □ f. Tried to avoid extra effort □ m. Other	ence of emotions ence of fatigue ence of intoxicant/drugs ective vision ence of illness er personal factors nown personal factors x) or is planned (Mark	□ a. Caused by employee □ b. Defective from normal use □ c. Defective via abuse/misuse □ d. Safety inspection failure □ e. Housekeeping/cleaning failure □ f. Faulty design/construction □ g. Inadequate illumination P box) to prevent recurrence: (N	☐ m. Other source cause ☐ n. Unknown source cause					
ΧP	ХР	ХР						
 □ a. Reinstruction of employee □ b. Reprimand/warning of employees involved □ c. Penalty discipline of employee involved □ d.Preventive instruction of others who do job □ e. Job reassignment of employee □ f. Improved inspection procedure □ g. Improved cleanup procedure 	□ a. Reinstruction of employee □ □ h. Action to improve enforcement □ □ o. Improve design/construction □ □ b. Reprimand/warning of employees involved □ □ i. Order JSA done on job □ □ p. Eliminate congestion □ □ q. Use safer Materials/supplies □ □ d. Preventive instruction of others who do job □ □ k. Install safety guard against □ □ r. Improve illumination/ventilation □ □ l. Require protective equipment □ □ s. Mandatory pre-job instructions □ □ f. Improved inspection procedure □ □ m. repair/replace equipment □ □ t. Correction other than above							
36. Immediate Supervisor (Last name first, first	t initial)	37. Employee's Signature						
38. Investigated by (Names and positions)	Date	39. Reviewed and approved b	y (Name and position) Date					

Part 1. Accident Description and Direct Caus	se Analysis
1. What Occurred	
	f any, (2) employee's location and position relative to immediate surroundings, (3) itated the accident, (5) the type of accident and contact agent.
12 04	
2 Cantalbuston Wilmonfoll Action Minet did the injured for	other 2 Contributing Winesfell Condition 18thet defeating or otherwise
Contributing "Unsafe" Action What did the injured (or person) do or fail to do that contributed directly to accident?	
specific.	equipment contributed directly to accident?
(Ex., Failed to use protective equipment, Failed to lock out machine)	
Don't report "Carelessness."	
\	
Part 2. Gorrective Action Must Be Taken	
4. Required Corrections	of posidont? Con Dayama Cida Itam 25 for having according ideas
(Ex., Job Safety Analysis (JSA), Training, Employee counseling, Mac	of accident? See Reverse Side, Item 35, for basic correction ideas.
Lax., oob dately relayed (oorly, training, Employee countering, moon	Tillie Occionity
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Part 3. Witnesses	
Part 4. Accident Location Sketch	
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Part 5. Extent and Outcome of Injury/Illness	18.4.6
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Restrictions:	
Medical Treatment	
- Name of Hospital or Clinic:	
- Name of Physician:	
Describe Treatment	

WRS, INC.



PROJECT NAME	PROJECT NO.
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VISITORS ON SITE:	CHANGES FROM PLANS AND SPECIFICATIONS AND OTHER
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WEATHER CONDITIONS:	IMPORTANT TELEPHONE CALLS:
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WRS INFRASTRUCTURE & ENVIRONMENT, INC. RESPIRATOR FIT TESTING & INSPECTION

NAME	· <u>-</u>	S.S.#	·	DAIL		
TITLE		BRANCH		DEPT	·	
TEST/HOOD ENC	LOSURE USED:	· 	YES			NO
IRRITANT SMOKE	FIT TESTING:					
No. of Squeezes	Activity				Reac	<u>tion</u>
	Initial			Y	es	No
	Head/Neck Motio	n			Yes	No
	Motion/Talking				Yes	No
	Motion/Deep Brea	athing	•		Yes	No
	Total Squeezes					
Seal Obtained	<u></u>	Type of Cartridge use	ed			
		Type of respirator				
		Size of respirator				
RESPIRATOR INS	SPECTION:					
Head Straps	•		ok / not ol	<u>k</u>		
Inhalation valves/s	tems/bodies		ok / not o	<u>k</u>		
Face to Mask Seal	ing Surface		ok / not ol	<u>k</u>		
Canister holder gas	sket/ threads		ok / not of	<u> </u>		
Exhalation valves/o	cover/stems/bodies		ok / not ol	<u>K</u>		
Lens		• -	ok / not ol	<u> </u>		
Action Taken to Co	prrect Deficiencies:					
Fit Test/ Inspection	performed by:			Date		-
Employee signature	e :			Date		

SIGNATU	ADDITION	CALIBRA		INSTRUM	PROJECT PROJECT DESCRIP
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WRS INFRASTRUCTURE ENVIRONMENT, INC. AIR MONITORING LOG

Samplers Initials	Sample #	Description	Time On	Off	Total Minutes	Volume Liters	Results In PPM
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FIELD CALIBRATION LOG

INSTRUMENT:	

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POST

DATE	TIME	PUMP TYPE	CALIBRATION GAS TYPE	GAS RATING PPM	CALIBRATED YES NO	SAMPLERS INITIALS
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WESTINGHOUSE REMEDIATION SERVICES, INC. STANDARD OPERATING PROCEDURE FOR THE CONTROL OF HAZARDOUS ENERGY LOCKOUT/TAGOUT

I. INTRODUCTION

Westinghouse Remediation Services, Inc. recognizes the hazards of unexpected:

- energization
- machine startup and/or
- release of stored energy

during service or maintenance activities on equipment/machines. The following Standard Operating Procedure: Control of Hazardous Energy - Lockout/Tagout, has been developed to provide for the isolation of all energy sources that could endanger employees.

II. PURPOSE

This procedure establishes minimum requirements for the lockout and/or tagout of energy isolating devices and systems. Lockout and/or tagout shall be used to ensure that all equipment, machinery, systems and facilities are inoperable and isolated from all potentially hazardous energy. The Lockout/Tagout procedure shall be implemented <u>before</u> employees perform service or maintenance activities where the unexpected energization, start-up or release of stored energy could cause personal injury and/or damage to equipment, machinery, facilities or the environment.

III. SCOPE

- A. Provisions outlined in this SOP include individual responsibilities, instructions for the implementation and removal of energy control procedures and employee training requirements.
- B. Employees Covered This procedure applies to all Westinghouse Remediation Services, Inc. employees and sub-contractors to the same.

C. Activities Covered

Service and maintenance activities on machines, equipment, systems and facilities during which the unexpected energization, start-up or release of stored energy could cause injury to employees must be conducted under the protection of a Lockout/Tagout SOP.

<u>Operation/Production</u> activities during which an employee must remove or bypass a guard or other safety device, or place his/her body into an area of machinery/equipment where work is actually performed upon the material being processed (point of operation) must also be conducted in accordance with a Lockout/Tagout SOP.

- D. This SOP is generic in nature and applies to the portion of scenarios described above which meet the following criteria:
 - 1. The machine, equipment or facility component has no potential for stored or residual energy or re-accumulation of stored energy after shut down which could endanger employees;
 - 2. The machine, equipment or facility component has a single energy source which can be readily identified and isolated;
 - 3. The isolation and locking out of that energy source will completely de-energize and deactivate the machine, equipment or facility component;
 - 4. The machine, equipment or facility component is isolated from that energy source and locked out during servicing, maintenance or site operations;
 - 5. A single lockout device will achieve a lock-out condition;
 - 6. The lockout device is under the exclusive control of the authorized employee performing the servicing, maintenance or site operation;
 - 7. The servicing, maintenance or site operation does not create additional hazards for other employees; and
 - 8. Utilization of this procedure has resulted in no accidents involving the unexpected activation or re-energization of an electrical source during servicing, maintenance or site operations.
- E. Activities which do not conform to these criteria must be conducted under equipment/machinery specific lockout/tagout procedures.

IV. DEFINITIONS

AFFECTED EMPLOYEES - Westinghouse employee and/or a subcontractor employee whose job includes activities such as operating machines or equipment on which servicing or maintenance is being performed under lockout or tagout action or whose job

requires the employee to work in an area in which servicing or maintenance or site operations are being performed.

<u>AUTHORIZED EMPLOYEE</u> - An employee who locks or implements a tagout system procedure on electrical sources to perform the servicing or maintenance of the equipment, or site operations. An authorized employee and an affected employee may be the same person when the affected employee's duties also include performing maintenance, service on machinery/equipment or site operations which must be locked or a tagout system implemented. The authorized employee shall be properly trained and approved to apply and remove locks and tags.

<u>BLANK</u> - To introduce an obstruction or to replace an opening with a solid surface to prevent flow (e.g. pipeblank).

<u>CAPABLE OF BEING LOCKED OUT</u> - An energy isolating device will be considered to be capable of being locked out if it has a hasp or other attachment where a lock can be affixed, or has a locking mechanism built in.

<u>DOUBLE ISOLATION</u> - To isolate by closing two valves or inserting a blank within an area of two valves.

ENERGY ISOLATING DEVICE - A physical device which prevents the transmission or release of energy. Examples include, but are not limited to, restrain blocks, electrical circuit breakers, disconnect switches, slide gates, or line valves. Where possible, they shall provide visible indication of the position of the device. Push-buttons, selector switches, check valves, and other portions of the control circuit shall not be considered energy isolating devices.

<u>ENERGY SOURCE</u> - Any source of electrical, mechanical, hydraulic, pneumatic, chemical, thermal, or other energy.

<u>LOCKOUT</u> - The placement of a lockout device on an energy isolation device, in accordance with an established procedure.

<u>LOCKOUT DEVICE</u> - A device that utilizes a positive means such as a lock, either key or combination type, to hold an energy isolating device in the safe "off" position for the purpose of protecting personnel.

<u>TAGOUT</u> - The placement of a tagout device on an energy isolation device in accordance with an established procedure. (See Attachment B for a suggested lockout/tagout tag.)

<u>TAGOUT DEVICE</u> - A prominent warning device, such as a tag and a means of attachment which can be securely fastened to an energy isolating device in accordance with the established procedure.

- Tagout devices, including their means of attachment, shall be substantial enough to prevent inadvertent or accidental removal.
- Tagout devices' attachment means shall be of a non-reusable type, attachable by hand, self-locking, and non-releasable, with a minimum unlocking strength of no less than fifty pounds.
- Tagout devices shall have the general design and basic characteristics of being at least equivalent to a one-piece, all-environment-tolerant nylon cable tie.

ZERO ENERGY STATE - Removal of all potential energy within the designated area of a lockout or tagout.

V. DIVISION OF RESPONSIBILITY

Appropriate (authorized and affected) employees shall be instructed in the safety significance of the lockout/tagout procedure. Each new or transferred affected employee and other employees whose work operations are or may be in the area shall be instructed in the purpose and use of the lockout/tagout procedure.

- A. Affected Employees shall conduct themselves in a manner which does not jeopardize the effectiveness of the Lockout/Tagout procedure. Assist Authorized Employees in the successful application, use and removal of the Lockout/Tagout SOP.
- B. Authorized Employees shall be familiar with that particular equipment and processes that are being locked/tagged out, and with the means and methods to isolate the energy source. Shall conduct service, maintenance and operation activities covered by this SOP in strict accordance with its provisions.
- C. Industrial Hygiene and Safety Officer (IH&SO) shall provide consultation to Operations Management on determining the applicability of this SOP to a particular activity. Develop equipment/machinery specific Lockout/Tagout SOPs not covered under this SOP. Assist Operations Management in determining the effectiveness of this SOP for a particular activity, conduct and/or coordinate the training of Authorized and Affected Employees. Audit and report on the effectiveness of the Lockout/Tagout SOP and training activities.

D. Operations Management - shall identify, with IH&SO's assistance, activities covered under this SOP and shall inform Affected and Authorized employees of same. Shall identify to the IH&SO and provide access to employees in need of training. Shall assign work activities to Authorized and Affected Employees in accordance with this SOP. Shall identify to the IH&SO machinery/equipment in need of SOPs beyond the scope of this SOP and assist in their preparation. Shall inform outside servicing personnel or contractors of this procedure whenever they are engaged in activities covered by the scope of this procedure.

VI. TRAINING

Each Westinghouse site/location shall provide training to ensure that the purpose and function of the energy control program are understood by employees and that the safe application, usage and removal of energy controls are acquired by the employees. Proper documentation with content and person's signature is required.

A. The training shall include the following:

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- 1. Each authorized employee shall receive training in the recognition of applicable hazardous energy sources.
- 2. Each affected employee shall be instructed on the purpose and use of the energy control procedure.
- 3. All other employees whose work operations are or may be in an area where energy control procedures may be utilized, shall be instructed concerning the procedure.

B. Additional training requirements when using Tagout Systems shall include the following:

- 1. Tags are warning devices and do not provide physical restraint as would be provided by a lock.
- 2. A tag shall not be removed without written approval of the authorized person responsible.
- 3. Tags must be legible and understandable by all authorized employees, affected employees, and all other employees whose work operations are in the area.
- 4. Tags and their means of attachment must be made of materials which will withstand the environmental conditions.

- C. Additional retraining shall be conducted:
 - 1. Whenever there is a change in an employee's job assignment.
 - 2. Based on changing job assignments, methods of control and/or whenever a periodic inspection reveals a deviation from the energy control procedure.
- D. Training on the use of the Energy Control Procedures shall be certified by Westinghouse. The certification shall contain each employee's name, signature and date of training.

All Westinghouse Remediation Services employees shall receive training sufficient to undertake the activities of an Authorized employee under this generic SOP.

VII. APPLICATION OF THE ENERGY CONTROL PROCEDURE

The following steps shall be followed in the application of the lockout or tagout system.

- A. <u>Preparation for Shutdown</u> Authorized and affected employees shall have knowledge of the type and magnitude of the energy, the hazards of the energy to be controlled, and the method or means to control the energy.
- B. <u>Machine or Equipment Shutdown</u> Machines or equipment shall be turned off or shut down using point of operation control switches.
- C. <u>Machine or Equipment Isolation</u> The energy isolating device for the machine or equipment shall be physically located and operated to ensure that the machine or equipment is isolated from the energy source.
- D. <u>Lockout or Tagout Device</u> The lockout or tagout device shall be affixed to each energy isolating device by authorized employees. The device shall be affixed in a manner that will hold the energy isolating device in a safe or off position.
- E. <u>Full Employee Protection</u> When a tagout device is used on an energy isolating device which is capable of being locked out, the tagout device shall be attached at the same location that the lockout device would have been attached, and the employer shall demonstrate that the tagout program will provide a level of safety equivalent to that obtained by using a lockout program.

Means to be considered as part of the demonstration of full employee protection shall include the implementation of additional safety measures such as:

Removal of an isolating circuit element

- Blocking of a controlling switch
- Opening of an extra disconnecting device
- Removal of a valve handle.
- F. Stored Energy All potentially hazardous stored or residual energy shall be relieved, disconnected and rendered safe.
- G. <u>Isolation of Energy Verification</u> Prior to starting work on machines or equipment, the authorized employee shall verify (per Section entitled "Removal of Lockout or Tagout Devices") that isolation and de-energization of the machine, equipment or electrical source has been accomplished.

VIII. REMOVAL OF LOCKOUT OR TAGOUT DEVICES

Before lockout or tagout devices are removed and energy is restored, the following procedures shall be followed:

A. <u>Employees</u>

- The work area shall be checked to ensure that all employees have been safely positioned or removed from the area.
- All affected employees shall be notified that the lockout or tagout devices have been removed before any machine, equipment or electrical source is energized.

B. The Machine or Equipment

• The work area shall be inspected to ensure that all non-essential items have been removed and the machine or equipment is ready for operation.

C. Removing the Lockout or Tagout Device

• Each lockout or tagout device shall be removed by the authorized employee who applied the device.

IX. REMOVAL OF LOCKOUT OR TAGOUT DEVICE BY ANOTHER EMPLOYEE

When the authorized employee who applied the lockout or tagout device is not available to remove it, the following procedure must be in place with specific training for such removal.

• Verify by visual inspection or equivalent that the authorized employee who applied the device is not at the facility.

- Make a reasonable effort to contact and notify the authorized employee that the lockout or tagout device has been removed.
- Notify that employee's supervisor.
- Before resuming work, ensure that the authorized employee knows that the device has been removed.

X. GROUP LOCKOUT OR TAGOUT

When servicing and/or maintenance is performed by a crew, craft or other group, they shall utilize a procedure which affords the employees a level of protection that is equivalent to that provided by the implementation of a personal lockout device.

Group lockout or tagout procedures shall include the following specific requirements:

- An employee will be assigned primary responsibility as an authorized employee for a set number of employees working under the protection of a group lockout or tagout device.
- This employee will maintain a roster of group members and their job assignments.
- When more than one crew, craft, or department is involve, assignment of overall jobassociated lockout or tagout control responsibility shall be designated to an authorized employee to coordinate affected work forces and ensure continuity of protection.
- Each authorized employee shall affix a personal lockout or tagout device to the group lockbox or device, group lockout box, or comparable mechanism on the machine or equipment being serviced or maintained.

XI. OUTSIDE PERSONNEL (CONTRACTORS)

- All outside servicing personnel (contractors) and Westinghouse personnel shall inform each other of their respective lockout or tagout procedures.
- All Westinghouse locations and or facilities shall ensure that the employees understand and comply with the restriction and prohibitions of the outside contractor's energy control procedures.

XII. LOCKOUT OR TAGOUT SEQUENCE

NOTIFY EMPLOYEES	ACTION
Site Supervisor	A. Notifies all personnel affected by the lockout or tagout application and to reason therefore.
SHUTDOWN PROCESS OR EQ	ЛРМЕNT
Authorized Employee	A. Turns off or returns operating controls to the neutral mode using appropriate equipment/process shutdown procedures.
	B. Operates switches and/or valves or any other energy isolating device(s) s that the equipment is isolated from its energy source(s).
PLACE LOCKOUT AND/OR TA	GOUT
Authorized employee	A. Applies safety locks and tags in all cases as required to isolate all energy devices. The lockout or tagout must be visible and accessible to anyone attempting to operate the isolated device.
VERIFY THE ABSENCE OR CO	NTROL OF ENERGY
Authorized employee	A. Checks or tests all systems after the lockout and tagging procedures have been completed to insure that total energy isolation has occurred.
	CAUTION: Return operating control to neutral or off position, after verification of energy isolation.
REMOVE LOCKOUT/TAGOUT	
Authorized Employee	A. Checks the area around the machine or equipment to ensure that no one exposed.
	B. Removes all tools from machines or equipment. Ensures all guards have been reinstalled and employees are in the clear.
· : . * *	C. Ensures that all pipes that were opened for repair or draining purposes at closed and connected properly.
	 D. Ensures that all controls are in off position or neutral position. E. Removes safety locks and/or tags.
	F. Operates the energy isolating devices to restore energy to the machine of equipment
ADMINISTER LOCKOUT/TAC	OUT DEVICES
Site Supervisor	A. Maintains a lockout or tagout log at the lock cabinet.
	B. Schedules and performs surveillances so that proper lock and tag procedure is being followed.
L .	C. Schedules and performs audits of the proper lock and tag procedure.

XIII. PROCEDURE INVOLVING MORE THAN ONE PERSON

Each individual working on equipment or processes shall be required to place his/her own personal lockout device or tagout device on the energy isolating device.

When an energy isolating device cannot accept multiple locks or tags, a multiple lockout or tagout device (hasp) may be used. If a lockout is used, a single lock may be used with the key being placed in a lockout box or cabinet which allows the use of multiple locks to secure it. Each employee will use his/her own lock to secure the box or cabinet.

ATTACHMENT A

Training Outline

CONTROL OF HAZARDOUS ENERGY LOCKOUT/TAGOUT

Lecture Outline

ı.	Haza	ira Keci	ognition					
	Α.	Reco	ognize the Scenario					
		1.	_					
			•					
		2.	Unexpected Machine Startup					
		3.	Release of Stored Energy					
		J.	Release of Stored Energy					
			O. F. i. A. O. Olivata Francisco					
		4.	Our Equipment vs. Our Clients Equipment					
		• : .						
			·					
		5.	Suspect Activities					
	В.	Reco	gnize the Energy					
		1.	Electric					
		2.	Hydraulic					
- ·	•	3.	Pneumatic					
		٦.	1 nounatio					
		A	Machanian					
		4.	Mechanical					

	5.	Thermal
	6.	Chemical
	7.	Combinations
Haza A.		ntrol Standard Operating Procedure vities Covered
В.	Defii 1.	nitions Affected Employees
	2.	Authorized Employees
	2.	Authorized Employees
		Authorized Employees Blank
	3.	Authorized Employees Blank

7.	Lockout	
8.	Lockout Device	
9.	Tagout	
10.	Tagout Device	
11.	Zero Energy State	
Lock 1.	cout/Tagout Sequence Notify Employees	
2.	Shutdown Process or Equipment	
3.	Place Lockout/Tagout Device	
4.	Verify Obsence or Control of Energy	

	Remove Lockout/Tagout Devices	
Acti	ivities Not Covered by SOP	
Rem	noving Another Employee's Lock/Tag	
Gro	up Lockout/Tagout	
O.O		

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ATTACHMENT B

Tag

~~B				
T	AG OI	JT		
NAME	DATE	HOUR		

SUBMITTAL TRANS	MITTI	LIORN		140
PROJECT:		n/Industrial Trans County, Texas	formers Site Rem	edial Action
AGENCY:	TNRCC			
CONTRACT NO.:	98 800501 00			
DATE OF ISSUANCE:	7/7	8/98		
CONTRACTOR:		nfrastructure & En	vironment, Inc.	
ENGINEER:	Radian	International, LLC		
ROUTING		SENT (Date, Sig	nature)	Received (Date, Signature)
Contractor to Engineer				7/31/98 John Korshi
Engineer to Contractor			Korshi	
Contractor to Agency	EPA_	7/28/98/ Je	Cokyon	
<u> </u>		V		<u> </u>
CTIDE CUTYES A Y	•	,		
SUBMITTAL			1 1 21	 -
Item: Construction	on Ou	vality Con		
Specification Section:			Equipment Des	ignation:
1400-1, 1.3.A.1 Drawing No.:	;_13 <u>k</u>	<u>۵-1, ۱۰3، B، ح</u>	Location:	
Drawing No.:		•	Location:	į
Other:		<u> </u>	Number Of Cor	niec'
Outci.			Number of cop	/ /
Previous Submittal date:	1		Revision Numb	er l
X1011000 DUDINITUR GEGO.			100000000000000000000000000000000000000	
CONTRACTOR'S VE	RIFICAT	TON		
This submittal meets al			Contract Docume	ents
XX Without Exception				·
Remarks:				
	 			
			·	
By: Je Clem			_ _7/	<i>28/98</i>
Contractor (Authoriz	zed Signa	ture)	Date	
V	·			
SUBMITTAL REVIEV				
Number of Copies			tions Taken	Revise and Resubmit
Exceptions as Note	ed	Rejected		
Remarks:				
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By: What American	 			31 August 1928
By: Fin Norm Engineer (Authorize	ed Signet	ure)	Date	
I PURMON (MANUELLE	on nighter	u. v)	Law	

Distribution:

Contractor Engineer TNRCC

Contractor Quality Control (CQC) Plan for Sol Lynn/Industrial Transformer Superfund Site Houston, Texas

Contract No.: 582-8-92242

Submitted to

Radian International 9801 Westheimer, Suite 500 Houston, Texas 77042

July 29, 1998

Prepared by

WRS Infrastructure and Environment, Inc.

650 North Sam Houston Parkway Suite 500 Houston, Texas 77060

WRS Project No.: No.: 4412-98-4029

Richard Scott, WRS QC Officer	7/28/93 Date Date
Radian Project Manager	

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Appendix A Forms

Contractor Quality Control Report Preparatory Phase Checklist Initial Phase Checklist Design Clarification Request Design Clarification Request Log Deficiency Report Deficiency Report Tracking Log

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SECTION 1 - INTRODUCTION

1. PURPOSE

This Contractor Quality Control (CQC) Plan describes the procedures to ensure that products and services meet Texas Natural Resource Conservation Commission (TNRCC) and Radian International (RI) requirements for quality, safety, and reliability of construction activities for the Sol Lynn/Industrial Transformer Superfund Site (ITS). It is the intent of this plan to establish and explain how WRS Infrastructure and Environment, Inc. (WRS) will organize, control, and review all activities according to the plans and specifications provided by RI with regard to quality. Implementation of this plan will result in a constructed project which meets performance objectives provided in the contract documents. Quality control (QC) testing shall detect deviation from the contract documents caused by error or negligence on the part of WRS or any subcontractor and will allow for suitable corrective measures to be taken. This submittal was prepared to conform with the requirements of the contract documents (Section 01400).

For this project, WRS will ensure the quality control over materials, suppliers, products, services, site conditions, and workmanship to produce work as specified in the contract documents and in this CQC Plan. This CQC Plan will be followed by all employees including subcontractors involved in quality-related activities.

The WRS QC Officer will maintain responsibility for implementing and maintaining the CQC Plan for all project-related items and services. Implementation includes keeping WRS management and appropriate representatives of RI and any regulatory agencies informed of the status and adequacy of the CQC Plan, including quality improvement recommendations.

This CQC Plan documents WRS policies and commitments for ensuring that every aspect of this project will comply with the quality standards, regulations, and specifications set forth within the contract documents. The CQC Plan outlines a variety of procedures that apply to all phases of construction; such as, inspection, subcontractor oversight, submittal tracking, and control testing. Subcontractors and WRS personnel at all levels are required to comply with the applicable requirements of this CQC Plan in performing their assigned duties.

1.1 Policy

It is the policy of WRS to provide exemplary services to clients in accordance with the CQC Plan and contract documents. The WRS QC Officer has the overall responsibility for maintaining and directing the CQC Plan. The WRS QC Officer shall ensure compliance with the CQC Plan and will report directly to the Project Manager. The WRS QC Officer will have stop-work authority when work practices conflict with this plan.

Deviations from the CQC Plan shall not be permitted except as specifically authorized by the appropriate RI representative(s).

1.2 Site Background

The ITS site is located in the Southeastern portion of the City of Houston, adjacent to the feeder road for Loop 610. Its physical address is Blocks 1415, 1417, and 1419 South Loop West in Houston. During the early 1970s, the site was used by the Industrial Transformer Company to clean and refurbish used transformers. Procedures used at the site resulted in the surficial release of transformer dielectric oils, at least some of which were polychlorinated biphenyl-based, and chlorinated solvents, primarily trichloroethene (TCE).

The released polychlorinated biphenyls (PCBs) were sorbed onto the surficial and near-surficial soils at the site. PCBs have not been identified as a chemical of concern (COC) in the groundwater from the site. TCE, however, migrated downward into the groundwater in the upper three water-bearing zones underlying the site.

The PCBs in the shallow soils are being addressed in an on-going site remediation. This operation is anticipated to be mostly or totally complete by the same time field operations related to the groundwater remediation commence.

1.3 Project Overview

This contract involve modification and expansion of an existing groundwater remediation system specific work activities include:

- Mobilization of necessary personnel, equipment, and materials to the site and installation of temporary facilities and utilities.
- Site preparation as necessary to perform the work.
- Expansion of the groundwater extraction system, including:
 - Conversion of five (5) existing silty zone extraction/recharge wells (SZER) to extraction service.
 - Installation of four (4) new Silty Zone extraction wells.
- Expansion of the groundwater monitoring system, including:
 - Installation of nine (9) new monitoring wells, and
- Modification of the groundwater collection system includes:
 - Removal, decontamination and disposal of existing piping.
 - Installation of buried, dual-contained HDPE piping to convey extracted groundwater to the treatment plant.
 - Conversion of underground electrical control boxes to above ground service.
 - Installation of associated electrical power, instrumentation, and controls.
- Demobilization of construction equipment and facilities.

1.4 Quality Assurance and Quality Control

In the context of this CQC Plan, quality assurance (QA) and quality control (QC) are defined as follows.

 QA is a planned system of activities by RI to provide adequate confidence that WRS and subcontracted products and services meet contractual and regulatory requirements. QC includes those activities by WRS and subcontractors to provide a means to measure and regulate
the characteristics of a product or service to contractual and regulatory requirements.

QC provisions are contained in **Section 4** of this CQC Plan and in the applicable sections of the contract documents.

1.5 Meetings

In accordance with Section 01310 of the contract documents, WRS will submit all documents listed in subsection 1.3B to RI within fourteen (14) days after an executed agreement. RI will schedule a preconstruction conference at a mutually agreed time and prior to any construction at the site. This meeting shall be attended by TNRCC, Environmental Protection Agency (EPA), RI, and WRS. WRS shall submit the following documents prior to the preconstruction meeting:

- · Health and Safety Plan;
- Construction Quality Control Plan;
- Schedule of submittals:
- Schedule of values;
- Environmental Protection Plan:
- Submittal Register;
- List of proposed subcontractors and a list of products by contractor;
- · Proposed Temporary Controls Plan;
- Proposed Substitutions and product options;
- Contract or submittal register;
- Questions regarding the contract work site and conduct of work;
- TxDOT approved Traffic Control Plan;
- Initial Estimated Progress Schedule; and
- Site Security Protocols.

The Preconstruction Conference will have the following agenda:

- Review of Contractor's Progress Schedule;
- Review of Contractor's Schedule of Submittals;
- Review of Contractor's Schedule of Values;
- · Review of procedures for processing Applications for Payment;
- Review of list of proposed subcontractors and list of products by Contractor;
- Designation of Job Superintendent and other responsible personnel by Contractor;
- Review of procedures for processing field decisions, substitutions, change orders, and contract closeout;
- Review of principal features of the Work, and questions and answers regarding the contract, work site, and conduct of the Work;
- Review of Contractor submittal register;
- Finalization of Health and Safety Plan acceptable to TNRCC, EPA, and RI;
- Finalization of CQC Plan acceptable to TNRCC, EPA and RI; and
- Other business pertinent to Work.

RI will record the meeting on audiotape. RI will summarize the minutes of the meeting, including any significant proceedings and decisions, and distribute copies to each participant in the meeting and to parties affected by decisions made at the meeting within three (3) days. Minutes of the meeting will be placed into the project file. The RI representative will preside over and administer weekly progress meetings and will call other meetings or conferences as deemed necessary throughout the time of the work.

SECTION 2 - ORGANIZATION

2. SCOPE

This section addresses the project organization and team member responsibilities relative to QA/QC. QC is not the responsibility of one individual or group, but encompasses every WRS employee, subcontractor, and supplier throughout all project-related functions. WRS will implement a project team to ensure that work is effectively managed and produces consistently high quality results. It is the responsibility of the project team management to ensure that QC activities take place at all levels in the project organization, and that all personnel associated with the project have a high level of quality control awareness and commitment.

The personnel assigned QC responsibilities will be familiar with this CQC Plan. They will also be qualified to observe and evaluate procedures. While implementing their responsibilities, QC personnel will have access to all work areas, provided that all applicable health and safety measures are followed. They will have the freedom to identify potential quality problems; initiate, recommend, or provide solutions to quality problems through designated channels; verify implementation of solutions; and ensure that further processing or action is controlled until proper disposition of unsatisfactory conditions has occurred. QC personnel shall have access to project management and corporate management as required to resolve problems or coordinate quality concerns.

2.1 General Requirements

The general requirements of the CQC Program are summarized below.

- The authority and duties of persons and organizations performing QC activities affecting quality shall be clearly established and delineated in writing. Quality control representatives will be identified by the WRS QC Officer in the event that additional personnel are needed to monitor quality control activities. If this occurs, the QC Officer shall issue letters of direction to all supplemental quality control personnel outlining duties, authorities, and responsibilities. Copies of these letters will be furnished to RI.
- The persons performing QC functions shall have direct access to the highest management level, and shall maintain sufficient independence from cost and schedule to accomplish their duties and tasks in order to meet the requirements of the contract.
- The persons performing QC functions shall have sufficient authority and organizational freedom to identify quality problems; to initiate, recommend or provide solutions; and to verify implementation of solutions.
- Control of activities affecting quality shall include verification of the QC functions associated with attaining the quality objectives outlined in the specifications. These QC functions to control activities include:
 - ensuring that an appropriate CQC Plan is established and effectively executed;
 - verifying, through methods such as checking, auditing, and inspection that activities affecting quality have been correctly performed; and
 - initiating "Stop Work" or other controls for conditions adverse to quality when immediate corrective action is required.

 The work of establishing and executing the CQC Plan or any part of the CQC Plan is the responsibility of the QC Officer.

2.2 WRS Project Organization

The structure of the WRS reporting relationships for oversight of the ITS project for environmental compliance, health and safety and quality control is displayed in **Figure 2-1**. Assignments are such that:

- Quality is achieved by those assigned responsibility.
- Quality is verified by persons not directly responsible for performing the work.
- All internal and external interfaces are identified, and responsibilities defined and documented.
- Responsibility for identification and control of non-conforming items/services has been identified.

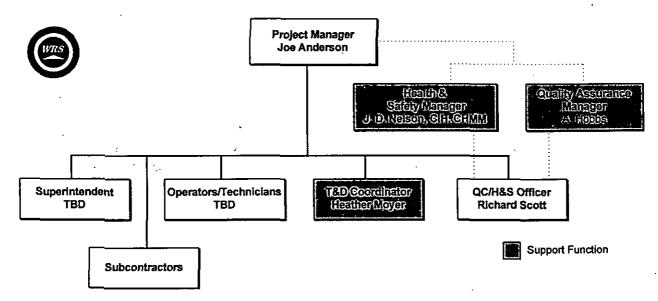


Figure 2-1 Sol Lynn/Industrial Transformers Superfund Site

The QC Officer has responsibility and authority to maintain and direct the CQC Plan while ensuring timely and effective correction of conditions adverse to quality. Supplemental WRS personnel assigned to perform QC inspection or testing functions shall have experience and training in the performance, organization, evaluation, and review of results of inspection and tests. They shall be capable of supervising or maintaining surveillance over inspections and tests performed by others, and of calibrating or establishing the validity of calibration of inspection, measurement, and test equipment. They shall have demonstrated proficiency in planning and setting up tests and shall be capable of determining the validity of test results.

2.3 Organizational Responsibilities

The organizational structure and assignment of functional responsibility within WRS are based on recognition of the qualifications of personnel to perform quality-affecting activities, from top-level management to individual contributors and hands-on craftsmen. The responsibilities of individuals with key responsibility for implementation, documentation, oversight, and management are discussed below. The functional responsibilities are such that:

- Attainment of quality objectives is accomplished by individuals assigned responsibility for performing work to specifications.
- Verification of conformance to established quality requirements is accomplished by those who
 do not have direct responsibility for the work.
- Personnel in QC functions have direct access to top-level management.

2.3.1 QC Officer

The QC Officer has front-line responsibility for quality control. He will become thoroughly familiar with all aspects of the project and ultimately inspect all work to ensure quality is being maintained by all craftsman, vendors, and subcontractors. The QC Officer is ultimately responsible for inspecting, documenting, and reporting to RI; all aspects of the work described and detailed in the plans and specifications. He is responsible for implementing and enforcing the CQC Plan. His duties include, but are not limited to:

- Implementation of the three-phase control system for all definable features of work;
- Day-to-day inspection of the work;
- Daily on-site documentation;
- Ensure that all in-place work meets or exceeds all minimum standards set forth in the plans and specifications;
- Detect discrepancies or problems on-site and immediately bring the same to the attention of the RI representative, as necessary;
- · Prepare and review of submittals and certification of submittals prior to submission;
- Maintain document control:
- Maintain as-built conditions, and:
- Interface with RI and outside testing agencies as required.

2.3.2 Project Manager

The primary responsibilities of the Project Manager are as follows:

- Has overall responsibility for supervision and management of this project;
- Maintains a clear definition of and adherence to the scope, schedule, and budget of the project;
- Provides technical, operational, and administrative oversight during the project, and;
- Responsible for ensuring that project activities are conducted with due consideration for federal, state, and local codes and regulations.

2.3.3 Project Superintendent

The role of the Project Superintendent includes the following key elements:

- Directs field operations throughout the project, and;
- Coordinates all site activities including site preparation, material handling, sampling, transportation, and disposal.

2.3.4 Field Technicians

The field technicians are responsible for procedures outlined in the CQC Plan. They are responsible for decontamination procedures, equipment operational procedures, sample collection and shipment, and documentation of field activities.

2.3.5 Subcontractors, Consultants, and Testing Laboratories

The activities of subcontractors shall be controlled in accordance with WRS procurement documents and conducted in accordance with this CQC Plan. Consultants may be retained as an additional resource to provide optimum assurance that appropriate levels of quality are maintained. These personnel may be used for independent quality audits, studies of processes and systems, or other functions that are deemed necessary. WRS shall be responsible for the actions of all consultants and will use reasonable judgment in evaluating their recommendations.

The testing laboratory is the party responsible for conducting QC tests on water, soil, and materials identified in the specifications. The objective of the QC testing is to verify that the work performed by WRS and its subcontractor's comply with the contract requirements, and to ensure that the QC methods implemented by WRS are effective.

SECTION 3 - PROCEDURES

3. SCHEDULING AND MANAGING SUBMITTALS

WRS shall submit all items listed on the submittal register in accordance with Section 01330 of the specifications or specified in other sections of the specifications. Prior to submittal, all items shall be checked and approved by the QC Officer and each respective transmittal form shall be stamped, signed, and dated by the QC Officer certifying that the accompanying submittal complies with the contract requirements.

The submittal register will be used to plan and monitor submittal progress to ensure timely approval of methods/materials prior to their schedule need times. The submittal register will be available for inspection by the RI representative at all times.

The QC Officer will review the submittal register during the preparatory phase of quality control to ensure that all submittals for the definable feature of work are approved, and will take action to correct any deficiencies in submittal requirements.

All submittals required by **Section 01330** of the specifications or as needed for approval of deviation will be submitted by the QC Officer; one (1) copy each to the EPA and the TNRCC, and three (3) copies to RI. Prior to submittal, all shop drawings, data, samples, certifications, and test reports will be reviewed by the QC Officer to ensure compliance with contract requirements. Corrections and revisions will be requested where necessary.

Approved submittals shall be utilized by the QC Officer for the following:

- Releasing material and equipment for fabrication;
- Inspection of material/equipment deliveries to the site for assurance of compliance;
- Verification of instruction on technical aspects of work features during preparatory and initial control
 phases; and
- Verification of methods and materials during follow-up phase inspections where applicable.

Submittals are classified as follows:

- Client Approved: Client approval will be required for extensions of design, critical materials, deviations, equipment whose compatibility with the entire system must be checked, and other items as designated by the RI representative.
- Information Only: All submittals not requiring client approval will be for information only. They will not be considered to be "shop drawings".

3.1 Control of Purchased Material, Equipment, and Subcontracted Services

This section describes methods for conducting source evaluation and selection of items affecting quality and workmanship; the measures established to evaluate the quality of material, equipment, or services; inspection of supplier products prior to acceptance; and other QC standards applicable to warrant the purchase, delivery, and installation of quality products. The QC Officer shall be responsible for ensuring that material, equipment, and services purchased either directly or through actual or potential subcontractors conform to the specifications.

During submittal planning, the Project Manager and QC Officer shall determine what is to be accomplished; who is responsible for each activity; the methods by which activities are to be performed;

and the schedule for key events and milestones. Procurement processes will be implemented as early as possible during the initial Preparatory Phase of each project task to ensure WRS/Subcontractor interface and product compatibility when compared to the specifications.

Procurement procedures for quality-related items will address:

- Procurement document preparation, review and control of revisions;
- Selection of the vendors:
- Evaluation of bids and contract award:
- Supplier performance;
- · Verification of supplier activities through audit, survey, and/or inspection, if applicable;
- Non-conformance control:
- · Corrective action;
- · Acceptance of product/services; and
- Quality records.

Selection of procurement sources shall be based on an evaluation of their capabilities. The following attributes will be considered:

- The supplier's capability to comply with quality-specifying codes or standards outlined in the specifications. The quality control plan or program presented by the potential subcontractor or supplier shall serve as a qualitative and quantitative measure of the subcontractor's ability to meet project requirements;
- Results of the survey of the supplier's facility, technical capabilities, and/or quality assurance program implementation;
- Review of the supplier's previous records and performance for similar products or services, and:
- The supplier's capability relative to the specification requirements.

Bid evaluation is performed to determine the extent of conformance to procurement documents. Additional considerations, such as supplier's personnel and production capability, may be reviewed. Documentary evidence that material and equipment conform to the procurement requirements shall be available prior to use of materials and equipment by WRS.

Purchased materials, parts, and components required for a project shall be inspected during the initial Preparatory Phase for each definable feature of work. Methods of remedying non-conformance of procured material, equipment, and services shall be implemented in accordance with Section 3.5.3 of this document. Delivered products shall be accompanied by appropriate documentation as identified in the purchase order prior to use.

3.2 Control Testing

All control testing and frequencies will be conducted in accordance with the specifications. The following testing is anticipated:

- Geotechnical testing related to soils and concrete placement. WRS will provide qualified independent geotechnical testing to ensure compliance with the contract documents and technical specifications for each definable feature of work.
- Pipe testing. WRS will conduct the required leak testing.
- Electrical testing. WRS's electrical subcontractor will be responsible for all required electrical testing.

3.2.2 Testing Facilities

To qualify for acceptance, the geotechnical laboratory must demonstrate to RI's satisfaction, based on evaluation of laboratory submitted criteria conforming to ASTM D 3740, that it has the experience and capability to conduct required field and laboratory geotechnical testing without delaying the progress of the work.

3.2.3 Test Records

All testing activities will be recorded on the CQC report, which will indicate the name of the test performed, specification paragraph reference, and location performed. All sampling efforts will be logged in field notebooks. Samples being submitted to a laboratory will be identified on a chain-of-custody and noted on the CQC report.

Results of the tests will be recorded on the daily CQC report or attachments. Actual test report will be furnished promptly to the RI representative as directed by the specifications. Test report formats described in the specifications will be utilized where directed.

When technical specifications for this contract require recording of test data on test logs (duration of test, readings to be taken, instrumentation to be used), this information will become a part of the records kept by the Project Manager with the project files. The Project Manager will submit for approval appropriate forms to document each test performed.

3.2.4 Control, Verification, and Acceptance Testing Procedures

WRS will perform the sampling and testing specified in the Project Specifications as required to verify that control measures are adequate to provide a product conforming to the contract requirements.

3.3 Inspection

3.3.1 Materials

The QC Officer will inspect all material/equipment deliveries for:

- Compliance with approved submittals;
- Damage;
- Correct dimensions and quantities; and
- Required labeling and documentation.

The RI representative will be notified of any materials or equipment failing to meet contract requirements. A record of inspection will be noted in the CQC report and any necessary corrective action will be initiated. Proper storage will be checked.

3.3.2 Off-Site Inspection

The QC Officer will inspect manufacturing facilities and material sources as specifically directed by the specifications. Additional inspections will be conducted as necessary to ensure compliance with the specifications. The QC Officer will record off-site surveillance activities in the CQC report. Where instances of noncompliance are observed, corrective action will be initiated.

3.3.3 On-Site Inspection

Each WRS employee and subcontractor will be charged with the responsibility of performing his or her work to achieve the highest degree of quality. The QC Officer will routinely and continually inspect the work for compliance with the contract documents. His duties, as outlined in **Section 2** of this document, are for the purpose of maintaining and documenting the work as required to achieve a high degree of quality.

Inspections required to verify conformance of an item or activity to specified requirements will be planned and executed. All inspection methods and results will be documented in accordance with the specifications. Subcontractors utilized by WRS shall not approve or accept any portion of the work or have the authority to "stop work".

Inspection planning shall be accomplished to ensure that inspection procedures, instructions, or checklists identify the characteristics and activities to be inspected; acceptance and rejection criteria; responsible personnel for performing inspection; and recording of objective evidence of inspection results. Planning also includes approval of data by the QC Officer to ensure that all inspection prerequisites and requirements have been satisfied in accordance with the specifications.

3.3.4 Completion Inspection

After completion of all work, the QC Officer will conduct a completion inspection of all work features. A punchlist will be developed to identify all items which are not in compliance with the specifications and drawings. The QC Officer will establish a date by which each deficiency will be corrected and note such date on the punchlist. A follow-up inspection will be conducted to verify completion of all punchlist items. The completion inspection and any resulting corrective action will be accomplished within the contract performance period. The RI representative will be notified upon completion of the punchlist and corrective work. The punchlist will be made part of the quality control documentation by attachment to the CQC report.

3.4 Control Procedures

A three-phase control system shall be implemented by the quality control staff to ensure that construction, including subcontractors and suppliers, complies with the requirements of the contract documents. This system of management will address each definable feature of work beginning with early planning stage requirements and ending with the finished work. Each phase will allow the opportunity to prevent problems and deficiencies and ensure that the accident prevention program is implemented. The three-phase control phases are outlined below.

3.4.1 Preparatory Phase

The **Preparatory Phase** includes all the steps necessary to ensure that preparations are in place prior to the commencement of work on a definable feature of work. The RI representative will be notified 48 hours in advance of the preparatory phase. During this phase, the following actions are performed:

- Review of technical specifications, plans, and contract documents to ensure that all personnel understand the work to be performed;
- A review of the submittal register to ensure that all required submittals are submitted and approved. Take corrective action when necessary. Submittal data will be discussed to acquaint all team members with technical aspects and points particular to the work feature;

- A check to ensure that materials and equipment are in compliance with approved submittals and specifications. Verify that required materials/equipment are on hand and properly stored;
- Verify that preliminary work is completed;
- Review control testing requirements and verify that testing facilities are approved. Verify that necessary provisions have been made for testing;
- Reach a consensus on planned construction procedures and the required level of quality expected from the QC Officer in order to meet contract specifications;
- The QC Officer will inspect all equipment to ensure that minimum requirements for safety provisions and applicable regulations are met;
- Document the above activities on the WRS form "Preparatory Phase Checklist" (see Appendix A). This form will be attached to the CQC report and furnished to the RI representative. Problems and deficiencies apparent during the preparatory phase and corrective action initiated will be noted on this report, and;
- Repetition of the Preparatory Phase will occur if standards of quality are not being met, a new work crew arrives on site, a substantial period of inactivity has passed, or significant problems occur.

3.4.2 Initial Phase

The **Initial Phase** is performed at the beginning of each definable feature of work and will be conducted at a meeting involving the QC Officer and personnel involved in the particular work feature. The RI representative will be notified 48 hours in advance of this phase. The initial phase will include:

- A check to ensure that preliminary work is completed and is in compliance with the contract;
- Verify that materials/equipment and planned construction procedures are in compliance with the contract documents:
- Review control testing requirements;
- · Set standards of quality required to meet contract specifications;
- Resolve all differences;
- Check equipment for safety provisions;
- Document the above-described activities on WRS form "Initial Phase Checklist" (see Appendix A). This form will be attached to the CQC report and furnished to the RI representative. Problems and deficiencies apparent during the initial phase and corrective actions initiated will be noted in this report. The initial phase will be repeated any time the QC Officer feels that quality standards and safety requirements must be reinforced, and;
- Repetition of the Initial Phase whenever standards of quality are not being met, a new work crew arrives on site, a substantial period of inactivity has passed, or significant problems occur.

3.4.3 Follow-Up Phase

The **Follow-up Phase** is accomplished through daily inspections by the QC Officer and through performance of the required control testing. Follow-up phase efforts will ensure a continuation of quality and safety standards established during preparatory and initial phases until the work feature is completed in accordance with the contract plans and specifications. The QC Officer's follow-up phase activities, including deficiencies noted, corrective action taken, and control testing results, will be recorded in the daily CQC report.

3.5 Reporting and Documentation

The QC Officer will maintain records of all quality control activities, including documentation of control testing and inspection, and maintain integrity of the contract documents through use of the following described forms and procedures. These records include production reports, quality control reports, testing plans and logs, lists of rework items, as-built records, and project reports. The QC Officer will review and certify submittals for compliance with contract requirements. Additional reports will be formulated or added as required by the specifications.

3.5.1 Daily Record

The QC Officer will utilize the "Contractor Quality Control CQC Form" to record daily control activities and resources used, work performed, and other data indicated on this form. The original and one copy will be furnished to the RI representative within 24 hours of the reporting date. The QC Officer will maintain copies for his files. Test reports will be included in the CQC report.

3.5.2 Control Phase Checklists

The QC Officer will utilize the "Preparatory Phase Checklist" and "Initial Phase Checklist" to document these control phase activities. The original and one copy will be attached to the CQC report for the date on which the control phase is completed.

3.5.3 Tracking Construction Deficiencies

The form for tracking construction deficiencies is the Deficiency Report (DR). A DR can be issued by the QC Officer or Project Manager. All DRs shall be kept and updated by the QC Officer. The DR log will be available for inspection by the RI representative. See **Appendix A** for example of a DR.

The DR tracking log (see **Appendix A**) will be in chart form and bound in a log book maintained on site. The DR log book is available for inspection by the RI representative at all times.

A construction deficiency for the purposes of this plan is defined as one of the following.

- An occurrence in which defective work or work tacking an essential part has been covered or is otherwise left as complete;
- Products are furnished to the site or incorporated into the work which do not meet the conditions of the contract documents; or

 Inspection points or contract requirements affecting the quality of the work have not been met. Minor defects in work on which construction is underway is not to be considered a construction deficiency.

3.5.4 Design Clarification Request

If a need arises to further clarify the intent of the designer, the QC Officer or Project Manager may issue a Design Clarification Request (DCR). A DCR log shall be kept by the QC Officer for tracking DCRs issued from the project site. The DCR will be forwarded to the RI representative as directed.

3.5.5 Contract Document Control

The QC Officer will maintain a record in log form of the most up-to-date documents issued for construction and adjustments. No contract documents will be replaced or revised without receipt of a modification or direction from the RI representative. During the progress of the job, the QC Officer shall keep a careful record at the jobsite of all changes and corrections from the layouts shown on the drawings. The QC Officer will enter such changes and corrections on as-built drawings promptly, but in no case later than one week.

SECTION 4 - QUALITY CONTROL PROGRAM

4. REQUIREMENTS

This CQC Plan describes the policies and practices for a planned and disciplined approach to achieve the standards for quality, safety, and reliability of products and services supplied by WRS. It is structured to ensure that contractual, quality, and regulatory requirements are met.

- This CQC Plan has been planned and documented by written policies, procedures, and instructions
 and shall be implemented throughout the life of the activities to which it applies.
- This CQC Plan provides control over the activities affecting the quality and safety of the identified structures, systems, components, and services. Quality controls will be established at the earliest practical schedule point for the implementation of quality-related activities as stipulated in the contract documents.
- Activities affecting quality shall have suitably controlled conditions established to ensure that
 appropriate equipment, environmental conditions, and prerequisites for the given activity have been
 satisfied in accordance with the contract requirements.
- This CQC Plan takes into account the need for special controls, processes, test equipment, tools, and skills to attain the required quality standards, and the need for verification of quality by inspection and testing per the contract documents.
- The status and adequacy of the CQC Plan shall be regularly reviewed throughout the project and evaluated by the QC Officer.

4.1 Description

WRS has established this CQC Plan to provide controls over the activities of WRS employees and subcontractors, each of whom has specific responsibilities for meeting the required quality objectives. This CQC Plan consists of several guidelines which collectively provide for conducting activities affecting quality under suitably controlled conditions; the use and maintenance of appropriate equipment; the implementation of environmental and special process controls; the conduct of inspections and tests; and the training and qualifications of personnel who perform activities that affect quality.

4.2 WRS Program

This CQC Plan establishes overall policy and identifies the quality requirements for accomplishing the services provided by WRS. The WRS system of Quality Control, including the three phases described in **Section 3.4** of this plan, is based on a defined system by which personnel, materials, and services are continually inspected for compliance with the specifications. This system is established through a series of periodic checkpoints or control tests. Once a deficiency is identified, work proceeds along clearly defined paths to remedy the problem. This basic premise is depicted in **Figure 4-1**.

During each phase of quality control, each member of the WRS management team has responsibilities that contribute to ensuring that the quality standards of a project are being met. The assignment of specific duties and administrative functions for a project task will vary according to the work to be performed, contract requirements, and other factors, and will be determined as early as possible. The lines of authority governing administrative and project personnel will be established prior to the initiation of work on the project and is reflected in **Section 2** of this plan.

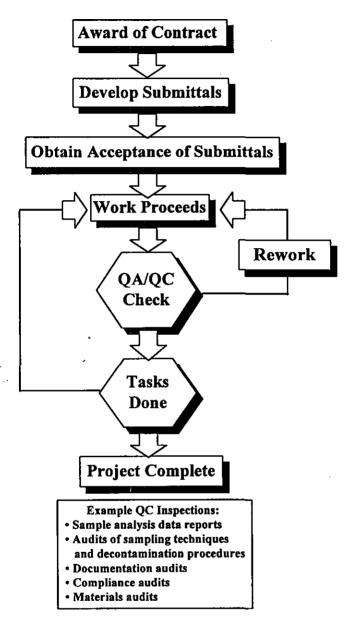


Figure 4-1 Quality Control Flow Path

Appendix A

APPENDIX A FORMS

WRS Infrastructure and Environment, Inc.. 650 North Sam Houston Parkway Suite 500 Houston, TX 77060

CONTRACTOR QUALITY CONTROL REPORT

Report No.

Contract No.:					
Name and Lo	ocation of Pro	ject:			
Weather:	(Clear)	(P. Cloudy)	(Cloudy)	Temperature:	
Rainfall	_	Inches	S	Min.,	Max.,
1. Contract	t/Subcontrac	tors and Are	a of Responsi	bility:	· .
Number	Trade	Hours	Employer	Locatio	n/Description of Work
	:	. ,			
	·			-	
				-	*
	-				
_		-			

2. Operating Plant or Equipment: (Not hand tools)

Plant/Equip	Date of Arrival	Date of Safety Check	Hours Used	Hours Idle	Hours for Repair
· · · · · · · · · · · · · · · · · · ·					
			<u></u>		
			·		

3. Work Performed Today: (Indicate location and description of work performed. Refer to work performed by WRS and/or subcontractors by letter in Table above.)

4. Control Activities Performed:

Preparatory Inspection: (Identify feature of work and attach.minutes).

Initial Inspections: (Identify feature of work and attach minutes).

Follow-Up Inspections: (List inspections performed, results of inspection compared to specification

requirements, and corrective actions taken when deficiencies are noted).

5.	Tests Performed and Test Results:	(Identify test requirement by paragraph number in
	specifications and/or sheet number in	plans).

6. Material Received: (Note inspection results and storage provided).

7. Submittals Reviewed:

Submittal Number	Spec/Plan Reference	By Whom	. Action Used
:			
	<u> </u>		
			·

8.	Off-Site Surveillance Activities, Including Action Taken:	
9.	Job Safety: (List items checked, results, instructions, and corrective actions taken).	
	,	
	$oldsymbol{\cdot}_{oldsymbol{\cdot}}$	
10.	Remarks: (Instructions received or given. Conflict(s) in plans and/or specifications, delays encountered).	
T 7	·	
and	rification Statement: The above report is complete and correct and all material and equipment used work performed during this reporting period area in compliance with the contract plans and	a
spe	cifications except as noted above.	
_		
Au	thorized WRS Representative	

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WRS Infrastructure and Environment, Inc., 650 North Sam Houston Parkway Suite 500 Houston, TX 77060

PREPARATORY PHASE CHECKLIST FORM

ontract No			
		<u> </u>	
	eature:		
ontract Re	presentative Noti	fied Hours in Advance Yes	No
Person	nel Present:		
		•	•
	Name	Position	Company/Government
,			
		,	
	<u> </u>		
			
Yes	v submittals and/orNo	r submittal log. Have all submittal	s been approved?
a	-		· · · · · · · · · · · · · · · · · · ·
a	-		
a b			
a b c			
a b c Are all		!? YesNo	

	b
	c
	Check approved submittals against delivered material. (This should be done as material arrives). Comments:
3.	Material Storage:
	Are materials stored properly? YesNo If no, what action is taken:
4.	Specifications:
	Review each paragraph of specifications.
	Discuss procedure for accomplishing work.
	Clarify any differences.
5.	Preliminary Work
	Ensure preliminary work is correct.
	If not, what action is taken?
6.	Testing
	Identify tests to be performed, frequency, and by whom.
	When required?

Where Required?

Review Testing Plan.
 Have test facilities been approved?
7. Job Safety
 Review H&S Plan
H&S Plan approved? YesNo
8. Contract Representatives Comments During Meeting
,
WRS QC Officer

•

.

•

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INITIAL PHASE CHECKLIST FORM

Da	te:				
Co	ntract No.:		·		
De	finable Feature:		•		·
Co	ntract Representativ	ve Notified	Hours in Advance Ye	es No	_
1.	Personnel Presen	ıt:			
	Name		Position	Company/Governi	nent
	:		,	·	
		·			
	•				
2.	Identify full comp specifications, and Comments:		ocedures identified at pre	paratory phase. Coordinat	te plans,
3.	Preliminary work	. Ensúre prelin	ninary work is complete a	and correct. If not, what a	ection is taken?
4.	Establish level of	workmanship.			
	Where is work loo	cated?			

	Is a sample panel required? YesNo
	Will the initial work be considered as a sample? YesNo(If Yes, maintain in present condition as long as possible).
5.	Resolve any differences.
	Comments:
6.	Check Safety.
Re	view job condition using H&S Plan.
	•
$\overline{\mathbf{w}}$	RS QC Officer

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DESIGN CLARIFICATION REQUEST

Date:	
Contract No.:	_
DCR No.:	_
Project Name:	
Description of Clarification Request:	
	•
•	
Sketch Attached: YesNo	
Written By:	Date:
Approved and Logged By: QC Officer	Date:
Contract Representative Response:	
	·
·	··
	·
Bv·	Date:

WRS Infrastructure and Environment, Inc.. 650 North Sam Houston Parkway
Suite 500
Houston, TX 77060

DESIGN CLARIFICATION REQUEST LOG

		WRS Request Contract Re Resp		epresentative ponse		
DCR Number	Description of Clarification	Date Issued	Issued By	Date Issued	Issued By	Comments
	· · · · · · · · · · · · · · · · · · ·					
	<u> </u>					
		·				

WRS Infrastructure and Environment, Inc.. 650 North Sam Houston Parkway Suite 500 Houston, TX 77060

DEFICIENCY REPORT

Date:	
Contract No.:	
DCR No.:	<u> </u>
Project Name:	
Description of Deficiency:	
	•
	•
Sketch Attached: YesNo	:
DROLOH PRIMOROU.	
Issued By:	Date:
Approved and Logged By:	Date:
QC Officer	·
Planned Corrective Action:	•
	·
	į.
Contract Representative:	• •
	•
WRS QC Officer:	Date:
Corrective Action Implemented:	Date:
Project	Manager
Corrective Action Inspected:	Date:
OC 0:	fficer .

WRS Infrastructure and Environment, Inc.. 650 North Sam Houston Parkway Suite 500 Houston, TX 77060

DEFICIENCY REPORT TRACKING LOG

		Deficiency		Correction		
DR Number	Description	Date Issued	CQC Report#	Date Corrected	COC Report#	Comments
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SUBMITTAL TRANS	MITTA	L FORM	-		No. <u>6</u>	
PROJECT:	Sol Lvi	nn/Industrial Trans	formers Site	e Remedial Action	•	
	Harris County, Texas					
AGENCY:	TNRC		,			
CONTRACT NO.:	98 800					
DATE OF ISSUANCE:	July 30	, 1998		7		
CONTRACTOR:			vironment,	Inc.		
ENGINEER:		WRS Infrastructure & Environment, Inc. Radian International, LLC				
			•		· ·	
ROUTING		SENT (Date, Sig	nature)	Received (I	Date, Signature)	
Contractor to Engineer		7/30/98 186	Elen-	- 7/31/98	Hu Koroli	
Engineer to Contractor		8/19/23/ be	n Korse		7	
Contractor to Agency		7-7-7				
				*		
SUBMITTAL						
Item: Schedule of Subm	ittals	·				
Specification Section:		·	Equipmen	t Designation:	•	
13/0-1, 1.3.8.3						
Drawing No.:			Location:			
Other:			Number (Of Copies:		
				· <u> </u>		
Previous Submittal date:			Revision	Number:		
	•					
CONTRACTOR'S VE		-				
This submittal meets al						
XX Without Exception	n Exc	cept for the Follow	ing Deviati	ons:		
Remarks:				•	 	
l				<u> </u>		
By: John Stere			_ -	7/30/98		
Contractor (Authoriz	Contractor (Authorized Signature)			Date		
V						
SUBMITTAL REVIEV						
Number of Copies			tions Taken	Revis	se and Resubmit	
Exceptions as Note	ed	Rejected				
Remarks:						
					•	
				21-	·	
By: Man Aorac	nd Cianat		_	3 August Date	<u> </u>	
I CHEHICE (AUDOTIZ	au oighati	uici		שונע '		

Distribution:

Contractor Engineer TNRCC

Submittal Schedule by WRS Infrastructure & Environment Sol Lynn/Industrial Transformer Site Houston, Texas

Status Date: 07/31/98

Submittal Description	Specification Reference	Timing Requirements	Planned Submittal	Comments
Schedule of Values	01290-2, 1.4.A; 01310-1, 1.3.B.4	prior to pre-construction conference	7/29/98	
Schedule of Submittals	01310-1, 1.3.B.3	w/i 14 days of Executed Agreement	7/31/98	
Environmental Protection Plan	01310-1, 1.3.B.5	w/i 14 days of Executed Agreement	'8/4/98	
List of Proposed Subcontractors	01310-1, 1.3.B.7	w/i 14 days of Executed Agreement	7/31/98	
Proposed Temporary Controls Plan	01310-2, 1.3.B.8	w/i 14 days of Executed Agreement	8/4/98	
Questions - Work Site & Conduct of Work	01310-2, 1.3.B.11	as required	N/A	
Initial Estimated Progress Schedule	01320-1, 1.3.A; 01310-2, 1.3.B.13	w/i 14 days of Executed Agreement	7/29/98	
Final Progress Schedule	01320-1, 1.3.D	job completion	10/5/98	
Revised Project Schedule	01320-1, 1.3.E	as required w/ progress meeting	N/A	
Submittal Register	01330-1, 1.3.A; 01310-1, 1.3.B.6	w/i 14 days of Executed Agreement	7/29/98	
Health & Safety Plan	01350-2, 1.4.A; 01310-1, 1.3.B.1	w/i 14 days of Executed Agreement	7/29/98	-
Contractor's Physician's Qualifications	01350-2, 1.4.C	none specified	7/31/98	
Details of Project Related Injuries & Illnesses	01350-2, 1.4.D	none specified	as required	
Employee Training Document/Certification	01350-2, 1.4.E	none specified	as required	
Employee Compliance Agreement	01350-3, 1.4.F	none specified	as required	
Employee Respiratory Fit Test Records	01350-3, 1.4.G	none specified	as required	
Medical Certificates	01350-3, 1.4.H	none specified	as required	
Logs & Reports	01350-3, 1.4.1	as required	as required	
Health & Safety Officer Qualifications	01350-3, 1.4.J	none specified	7/31/98	
Site Safety Officer Qualifications	01350-4, 1.4.K	none specified	7/31/98	
Proposal for Implementing this Section	01355-1, 1.4.A	prior to on-site construction	8/13/98	
Spill Control Plan	01355-3, 3.9-A	none specified	8/13/98	<u> </u>
Progress Photos	01390-1, 1.3.A	monthly	ongoing	
Construction Quality Control Plan	01400-1, 1.3.A.1; 01310-1, 1.3.B.2	w/i 14 days of Executed Agreement	7/29/98	
TxDOT Approved Traffic Control Plan	01600-1, 1.3.A; 01310-2, 1.3.B.12	w/i 14 days of Executed Agreement	8/7/98	
List of Major Products	01630-1, 1.4.A, 01310-1, 1.3.B.7	w/i 14 days of Executed Agreement	7/31/98	
Request for Product Sustitutions	01630-1, 1.5.A; 01310-2, 1.3.B.9	w/i 14 days of Executed Agreement	8/3/98	
Security Plan	01710-1, 1.3.A	none specified	8/4/98	
Site Security Protocols	01710-2, 3.2; 01310-2, 1.3.B.14	w/i 14 days of Executed Agreement	8/4/98	

Submittal Description	Specification Reference	Timing Requirements	Planned Submittal	Comments
Name & Quals of Registered Prof. Surveyor	01720-1, 1.4.A	before starting survey work	8/13/98	
As Built Drawings	01720-1, 1.4.C	final completion	11/4/98	
Project Record Documents	01720-1, 1.5	final completion	11/4/98	
Surveys for Measurement & Payment	01720-2, 3,4.C	monthly	on-going	
Written Notice of Substantial Completion	01780-1, 1.3.A	substantial completion	10/5/98	
Written Certification of Final Completion	01780-1, 1.4.A	final completion	11/4/98	·
Project Record Documents	01780-2, 1.6.A	project closeout	11/4/98	
Evidence of Payment & Release of Liens	01780-2, 1.6.B	project closeout	11/4/98	
Consent of Surety to Final Payment	01780-2, 1.6.C	project closeout	11/4/98 ·	•
Statement of Adjustment of Accounts	01780-2, 1.7	project closeout	11/4/98	
Application for Final Payment	01780-2, 1.8	project closeout	11/4/98	
Record Documents	01800-3, 1.5.A	contract closeout	11/4/98	
Test Reports	02110-1, 1.4.A	as required	on-going	
Monthly Operations Log	02120-2, 1.5.A	monthly	on-going	
Copies of Way Bills	02125-1, 1.3.A.1	none specifed	on-going	
Copies of Weigh-in/Weigh-out Tickets	02125-1, 1.3.A.2	none specified	on-going)
Copies of Manifests from Disposal Facility	02125-1, 1.3.A.3	none specified	on-going	
Water Well Driller's Texas License	02150-2, 1.3.A.1	w/ pay request	monthly	
Driller's Current OSHA 1910.120 Training Certs	02150-2, 1.3.A.2	w/ pay request	monthly	-
City of Houston Permit Information	02150-2, 1.3.A.3	w/ pay request	monthly	
Pipe Product Data	02155-2, 1.5.A	none specified	9/4/98	
Pipe Shop Drawings	02155-2, 1.5.B	none specified	9/4/98	J
Pipe Record Drawings	02155-2, 1.5.C	final completion	11/4/98	
Pipe Manufacturer's & Installer's Qualifications	02155-2, 1.5.D	none specified	9/4/98	
Maintenance Data	02900-1, 1.7.A	none specified	10/5/98	
Restoration Evidence	02900-2, 1.10.A	before & after work	as required	
Concrete Product Data	03300-1, 1.4.1	none specified	9/11/98	
Concrete Laboratory Test Results	03300-1, 1.4.2	none specified	as required	
Departures from Diagrammatic Drawings	16010-4, 1.5.D	w/i 30 days of Contract Award	as required	
List of Electrical Material & Equipment	16010-5, 1,6.E	before purchase of equipment & mat'l	8/21/98	<u> </u>
Electrical Record Drawings	16015-10, 3.9	none specified	11/4/98	•
Electrical Testing Forms	16015-10, 3.10	none specified	9/22/98	<u> </u>

SORMITIAN INVINC	MIII IAL FORM		No #				
PROJECT:	Sol Lynn/Industrial T Harris County, Texas		emedial Action				
AGENCY:	TNRCC						
CONTRACT NO.:	98 800501 00						
DATE OF ISSUANCE:	July 30, 1998						
CONTRACTOR:	WRS Infrastructure &	Environment, Inc	· · · · · · · · · · · · · · · · · · ·				
ENGINEER:	Radian International,	LLC					
ROUTING	SENT (Date		Received (Date, Signature)				
Contractor to Engineer	7/30/98, 1	caleur	7/31/98 bhikashi				
Engineer to Contractor	8/19/98 /	in Karolin					
Contractor to Agency	, , ,						
			•				
SUBMITTAL			<u> </u>				
Item: H&S Officer Qual	ifications						
Specification Section:		Equipment I	Designation:				
/350-3, /. 4.J Drawing No.:	,		·				
Drawing No.:		Location:	·				
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Other:		Number Of	Copies:				
Previous Submittal date:		Revision Nu					
Previous Submittai date.		Kevisioli Nu	intoer:				
CONTRACTOR'S VE	RIFICATION						
This submittal meets al		the Contract Docu	uments				
	n Except for the Fo						
Remarks:		<u>Ÿ</u>					
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By: Ja Colemo		7	1/30/98				
Contractor (Authori	zed Signature)	Dat					
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SUBMITTAL REVIE							
Number of Copies		xceptions Taken	Revise and Resubmit				
Exceptions as Not	ed Rejec	eted					
Remarks:							
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By: Aly Kono	Mr.		3 Hogen to 1998				
Engineer (Authoriz	ed Signature)	D	Date /				

Distribution:

Contractor

Engineer TNRCC

J. DOUG NELSON, JR., CIH, CHMM

WRS, Inc. Corporate Health and Safety Manager

EDUCATION/TRAINING

BS, Environmental Health, University of Georgia,

Graduate Studies: Public Health, Emory University

OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) Training (29 CFR 1910.120), 1989

OSHA 8-hour Refresher Course (29 CFR 1910.120), annually

Lead Abatement Supervisor: Housing: Public, Commercial & Industrial Buildings

DOT Training - HM-126F

Defensive Driver Training

American Red Cross CPR and First Aid

SUMMARY

Mr. Nelson joined Westinghouse Remediation Services, Inc. (WRS) in 1989, and has over twelve years of experience in providing industrial hygiene and safety support to hazardous waste operations. He has prepared safe standard operating procedures, administered accident prevention and investigation measures, and conducted employee health and safety training for the manufacturing and hazardous waste industry. In addition, he has designed and conducted integrated and real-time air and biological monitoring at hazardous, toxic and radioactive waste (HTRW) sites. His experience in the hazardous waste field also includes the development and preparation of site-specific health and safety plans for planned and emergency response actions, and oversight of site operations to ensure compliance with OSHA regulations.

RELEVANT EXPERIENCE

- Developed site health and safety plans for projects that involved remedial activities at natural gas pipeline compressor stations.
- Provided on-site health and safety support during the remediation of a fire-damaged building that exhibited PCBs, dioxins and dibenzoforans. Prepared the health and safety plan, conducted PCB and dioxin air monitoring, and advised the client of the impact of remediation on public health.
- Directed site health and safety activities, including air and biological monitoring, during the decontamination of a 1-million-square-foot building that was contaminated with mercury and cadmium.
- Provided site set-up and continuing oversight during a \$10 million PCB-contaminated lagoon closure. Consulted with project management on health and safety aspects of site layout and preparation and materials handling. Developed amendments to the air monitoring and health and safety plan as work progressed.
- Served as on-site Health and Safety Officer during an emergency response to a spill of 10,000 gallons of isopropyl alcohol. Directed air monitoring, materials handling and site control activities. Advised client of the impact of site operations to public safety.
- Developed site health and safety plans for remediation projects that involved the fixation of heavy metals and organics in soils and sludges.

J. DOUG NELSON, JR., CIH, CHMM

- Developed site health and safety plans for stabilization of petroleum-contaminated sludges with various ad agents.
- Provided health and safety management during the excavation and thermal destruction of PCBcontaminated soils from residential and industrial sites.
- Provided health and safety oversight for a project involving the excavation and thermal desorption of solvent-contaminated soils.
- Provided health and safety management for the thermal destruction of PCB at the LaSalle, illinois electrical facility.
- Assisted in development of the work plan for decontamination of a metallic-mercury-contaminated manufacturing facility. Directed on-site health and safety activities, and air and biological monitoring.
- Responsible for company-wide program management of medical surveillance, accident prevention and investigation, record keeping, training, and industrial hygiene.
- Served as Project Health and Safety Officer during the remediation of zirconium-containing
 plumbing. Project activities included remote demolition, creating an inert atmosphere environment
 and providing safe materials handling methods for the prevention of fire and explosions.
- Served as Project Manager for an occupational exposure assessment conducted during asphalt paying operations. The asphalt mixture contained ground tire rubber.
- Served as Site Health and Safety Officer for numerous underground and aboveground tank cleaning and demolition projects.
- Provided health and safety oversight for various unknown drum excavation projects.
- Designed and implemented a plant-wide hazardous materials management program. Developed a
 respirator training program for plant personnel. Assisted in the preparation of health and safety
 reports to government regulatory agencies.

PROFESSIONAL REGISTRATIONS/AFFILIATIONS

Certified in the Comprehensive Practice of Industrial Hygiene (Cert. No. 6804)
Master, Certified Hazardous Material Manager (Cert. No. 7875)
Member, National Environmental Health Association
Diplomate, American Academy of Industrial Hygiene
Member, National and Local American Industrial Hygiene Association
Member Alha Hazardous Waste Technical Committee
Member, Georgia Chapter of the Academy of Certified Hazardous Material Managers
Member, American Academy of Certified Hazardous Materials Managers

PUBLICATIONS/PRESENTATIONS

"Prioritizing Industrial Hygiene and Safety Resources at Hazardous Waste Sites Using Injury/ Illness Experience," American Industrial Hygiene Conference & Exposition (May 1998)

"OSHA Standards: Lead and Asbestos," CHMM Review Course, Georgia Tech Research Institute (May 1998)

Page 2 of 3

J. DOUG NELSON, JR., CIH, CHMM

"Presentation of Findings for an Occupational Exposure Assessment of Ground Tire Rubber/ Asphalt: Blending, Mixing and Paving Operations", Florida Department of Transportation (April 1994)

"Fire and Explosion Hazards During Underground Storage Tank Removals," Georgia Department of Transportation (January 1992).

"Fire and Explosion Hazards During Underground Storage Tank Removals," Louisiana Association of Business and Industry (August 1991).

"Fire and Explosion Hazards During Underground Storage Tank Removals," Georgia Tech Research Institute (March 1991).

Page 3 of 3

RICHARD D. SCOTT

Project Assignment: Region Health and Safety Coordinator

EDUCATION/TRAINING

Associate Degree in Environmental Technology, Salt Lake Community College upon completion in 1999

OSHA 40-Hour Hazardous Waste Operations and Emergency Response Training (29 CFR 1910.120), 1987

OSHA Refresher Course (29 CFR 1910.120), annually

OSHA Supervisor Training (29 CFR 1910.120 (e) (4)) April 1994

OSHA 24-Hour Hazardous Materials Safety Training, June 1989

American Red Cross Certified Instructor for First Aid & CPR

Confined Space Instructor Training (29 CFR 1910.146): D-2000, May 1994

Hazardous Materials: Recognition and Identification: National Fire Academy, December 1986

Preparing for Incident Command: National Fire Academy, January 1987

Crash, Fire, Rescue: University of Kansas, 1986

Kansas Firefighter I and II: University of Kansas, 1985 Handling of Hazardous Materials: U.S. Air Force, 1984 Fire Protection Specialist Course: U.S. Air Force, 1982

Fire Rescue Course: U.S. Air Force, July 1986

D.O.T. Hazard Communication, Train the Trainer Program, Westinghouse Electric, May 1995

Project Manager Remediation Training (8 hour course), 1984

Hazardous Material Ground Transportation, Westinghouse Electric, May 1995

SUMMARY

Mr. Scott has over ten years of environmental experience that is broad-based in scope. He has extensive experience in the planning and execution of remedial activities at hazardous waste sites on a planned and emergency response basis. His current duties include employee training, administration of the medical monitoring program, audits of health and safety activities at job sites, development and oversight of air monitoring strategies, oversight of standard operating procedures and protocols for health and safety, and the development ads well as review of site-specific health and safety plans. Mr. Scott has managed/supervised diverse projects including soil excavation/disposal, hazardous material handling, underground storage tank removal, facility decontamination, field sampling, and emergency response actions. His project management responsibilities have included bidding, estimating, contract negotiations, coordination of subcontractors, interaction with government regulatory agencies, and report preparation. He is skilled in field crew coordination/oversight and the use of specialized heavy equipment for hazardous waste remediation.

Mr. Scott is very experienced in the identification, handling, and management of hazardous wastes. He has conducted field sampling, and has developed and implemented sampling

RICHARD D. SCOTT

programs. In addition, Mr. Scott has served as a Health and Safety Officer on a variety of environmental remediation projects.

RELEVANT EXPERIENCE

- Region Health and Safety Coordinator. (1993-present)
 - · Accident prevention and investigation and administrate workers compensation claims.
 - Development and implementation of project health and safety plans.
 - Serve as a project site health and safety officer.
 - Employee training.
 - Environmental compliance.
 - Employee medical monitoring.
 - · Conduct health and safety audits on projects and WRS facilities
- Site Health and Safety Officer. Performed health and safety audits and served as full time Health and Safety Officer on a variety of environmental remediation projects including contaminated soil excavation, hazardous material handling, on-site waste treatment, structural decontamination and demolition, and general construction projects. Prepared site specific health and safety plans and was responsible for plan implementation and compliance. Set personal protection levels, provided real-time and fixed station monitoring, and supervised total safety effort.
- Site Supervisor, Westinghouse Remediation Services, Inc. (1987 1992)
 - Managed field operations during the decontamination and follow-up sampling of two 12 story catwalks and assorted machinery following a PCB spill at a steel polishing plant in Ohio. Supervised the crew during solvent cleaning of electrical piping and trench covers, and grinding of concrete floors. Supervised the containerization and staging of all materials. Maintained a daily field work log, equipment decontamination log, and sample maps of the entire project. (1988)
 - Managed emergency response cleanup activities following a spill of petroleum by an
 overturned tanker truck in Kansas. Coordinated the acquisition of heavy equipment and
 operators. Supervised field activities during the removal and loading of contaminated soil
 for disposal. Prepared a reproducible sampling grid and collected soil and water samples
 from excavated areas and a nearby waterway. (1988)
 - Participated in all phases of tank and system dismantling, rigging, and decontamination
 during the dismantling of a PCB oil treatment unit in Pennsylvania. Utilized field PCB oil
 screening techniques to qualitatively assess residual contamination levels. Containerized,
 characterized, and staged all materials for transportation and disposal. Decontaminated
 PCB oil stained concrete pads and operated a diamond core drill to collect concrete
 samples. (1987)
 - Conducted site assessments and managed subsequent remedial activities at electrical substation PCB cleanup sites in the northwestern United States. Produced cost and

RICHARD D. SCOTT

technical proposals for multi-phase cleanups. Prepared remedial action plans, sampling grids, excavation maps, and final reports for clients. Managed the actual cleanup activities including excavation, transportation, disposal, and sampling. (1989-present)

- Supervised the removal and disposal of five underground storage tanks from an abandoned
 gasoline station in Utah. The tanks formerly contained waste motor oil, leaded and
 unleaded gasoline, and diesel fuel. Developed and implemented a sampling scheme
 consisting of composite and core samples, to establish contamination boundaries.
 Supervised the excavation and disposal of soil contaminated with hydrocarbons and heavy
 metals. (1989)
- Assisted in the management of field activities during the emergency response remedial
 action following a hazardous materials spill from a truck on a highway. Worked with
 local emergency agencies in securing the immediate area from public danger. Supervised
 the field crew working around the clock during highway cleaning operations. Sealed
 leaking transformers and transferred the material to another vehicle for disposal. (1988)
- Served as Project Manager, coordinating subcontractor efforts and planning and executing field activities during the excavation and removal of pesticide-contaminated material at a site in Phoenix, Arizona. Assessed health risk potential to workers and assisted in developing and administering an air monitoring program. Developed a soil sampling scheme for cleanup verification. Interacted with state regulatory agencies regarding compliance issues on a daily basis. Prepared the final report for the client. (1992)

PROFESSIONAL REGISTRATIONS/AFFILIATIONS

Member, International Hazardous Materials Association, 1990

Member, Utah Safety Council, 1990

SUBMITTAL TRANS	MITTAL I	FORM			No. <u>9</u>		
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ENGINEER:	Radian Int	ernational, LLC	;				
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CURRICULUM VITAE

FRANK L. MITCHELL, D.O., M.P.H., FACOEM

TTTLE

Medical Director, Medical Services Network, Atlanta, Georgia Consultant, Liberty Mutual Loss Prevention

PREVIOUS EMPLOYMENT

Career Medical Officer, U.S. Public Health Service, 1965-95 Consultant in Occupational and Environmental Medicine, 1995-98

SIGNIFICANT FEDERAL ACTIVITIES

Chief Medical Officer, Agency for Toxic Substances and Disease Registry (ATSDR), 1987-95.

Special Assistant to the Director (Occupational Medicine), National Center for Environmental Health, National Centers for Disease Control (CDC), 1981-1987.

Senior Reviewer, National Institute for Occupational Safety and Health (NIOSH) 1971-81

EDUCATION

A.B.: New Mexico Highlands University, Las Vegas, New Mexico, 1960

D.O.: College of Osreopathic Medicine and Surgery, Des Moines, Iowa, 1964

LL.B.: LaSalle Extension University, Chicago, Illinois, 1966

M.P.H.: University of Michigan, Ann Arbor, Michigan, 1970

Physician Retraining Program, Medical College of Pennsylvania, 1988

MEDICAL INTERNSHIP

Rocky Mountain Hospital, Denver, Colorado; 1964-1965

SPECIALTY CERTIFICATIONS

Occupational Medicine,

American Board of Preventive Medicine, 1975

Certified Hazardous Waste Specialist

National Environmental Health Association, 1988

Certified Medical Review Officer (MRO), 1993, 1998

MEDICAL LICENSURE

Michigan, New Mexico, Georgia, Maryland, Missouri, Florida, Colorado Diplomat, National Board of Osteopathic Examiners AMA Physician's Recognition Awards, 1984, 1987, 1990, 1993

ACADEMIC AND OTHER APPOINTMENTS

Associate Professor, School of Public Health Emory University Atlanta, Georgia (Adjunct) 1991-Present

ACADEMIC AND OTHER APPOINTMENTS, Cont'd:

Clinical Associate Professor of Internal Medicine (Occupational Medicine) Mercer University School of Medicine Macon, Georgia (Adjunct) 1990-

Associate Professor of Public Health, School of Public Health University of Alabama at Birmingham Birmingham, Alabama (Adjunct) 1985-

Clinical Assistant Professor, Department of Medicine Uniformed Services University of the Health Sciences Bethesda, Maryland (1980-82) 1980-1982

Consultant Georgia Poison Control Center Grady Memorial Hospital Atlanta, Georgia, 1990-

Member, Editorial Board Toxicology and Industrial Health, 1994-

Member, Editorial Board, International Journal of Occupational Medicine, Immunology, and Toxicology, 1995-

Science Member, Board of Directors
Environmental Sensitivities Research Institute, 1995-

Member, Editorial Board
The Occupational and Environmental Medicine Report, 1993-

Member, Academic Advisory Council Emory University School of Public Health, 1990-

Editorial Advisory Board, The International Journal of Occupational Health and Safety, (1975-1983).

Responsible for Medical Recommendations, NIOSH Criteria for Recommended Standards for Occupational Exposure, (100+ Criteria Documents), NIOSH, 1971-1981.

Assistant Editor, Human Effects, The Toxic Substances List, 1973 Edition, DHEW, NIOSH, Rockville, Maryland, 1973.

Member, Alumni Board of Governors University of Michigan School of Public Health, 1993-1995

ACADEMIC AND OTHER APPOINTMENT'S, Cont'd:

Member, Physician's Advisory Committee Atlanta Area Health Education Center, 1990-

Member, Technical Advisory Committee Alliance to End Childhood Lead Poisoning, 1990-

Consultant, Bureau of Research American Osteopathic Association, 1988-1989

American College of Occupational and Environmental Medicine:
Occupational and Clinical Toxicology Committee (1989-)
Environmental Medicine Committee (1992-)
Government Agency Liaison Committee (1992-)
Committee on Long-Distance Learning (1994-)

Member, Committee on Occupational Medical Practice, AOMA; published in *Journal* of Occupational Medicine (monthly), 1982-1985.

PROFESSIONAL AFFILIATIONS

American Occupational Medical Association (Fellow)

American Academy of Occupational Medicine (Fellow)

American College of Preventive Medicine (Fellow)

American Medical Association

Founding Vice-President, American Osteopathic Academy of Public Health and Preventive Medicine, 1980.

BIBLIOGRAPHY

Books:

Mitchell, F.L., Ed. Multiple Chemical Sensitivity: A Scientific Overview. U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry, 1995.

Mitchell, F.L., Price, P.H., Eds., Proceedings of the Conference on Low Level Exposure to Chemicals and Neurobiologic Sensitivity. Toxicology and Industrial Health, Special Issue, Vol. 10, No. 4-5, July-October, 1994.

Chapters:

Mitchell, F.L., Hazardous Waste and Human Health. In: Bunn, W., Fleming, L., Gardner, I, et al. International Occupational and Environmental Medicine. Mosby, St. Louis, 1998.

Mitchell, F.L., Hazardous Waste; In: Rom, W.N. Environmental and Occupational Medicine, 3rd Edition. Little, Brown and Co., Boston, 1998.

Chapters, Cont'd:

Mitchell, F.L., Environmental Medicine: The Role of The Agency for Toxic Substances and Disease Registry. In: McCunney, R.J., Handbook of Occupational Medicine, 2nd Edition. Little, Brown and Co., Boston, 1994.

Mitchell, F.L., Hazardous Waste Workers. In: Zenz, C., Dickerson, O.B., Horvath, E.P., Eds., Occupational Medicine, Principles and Practical Applications, Third Edition. Year Book Medical Publishers, Chicago, 1993.

Mitchell, F.L., Hazardous Waste; In: Rom, W.N. Environmental and Occupational Medicine, 2nd Edition. Little, Brown and Co., Boston, 1992.

Zenz, C., Kindwall, E.P., Bridboard, K., and Mitchell, F.L.,: Selected Potentially Hazardous Substances Commonly Encountered. In: Zenz, C. (Ed.), Developments in Occupational Medicine. Year Book Medical Publishers, Chicago, 1980.

Publications and Selected Presentations:

Cost Effective Medical Surveillance Programs. Presented at a Roundtable on Cost Effective Practice of Industrial Hygiene in the Hazardous Waste Industry. American Industrial Hygiene Conference, Atlanta, 1998.

What Can the Individual Physician Do? Presented to Emerging Public Health Threats and the Role of Climate Change. U.S. Environmental Protection Agency, Atlanta, GA, March, 1998.

Stress and the Role of Risk Communication, Presented to Mid-Atlantic Industrial Hygiene Conference, Baltimore, MD, November, 1997.

Hospital Preparation for Chemical Emergencies and Multiple Chemical Sensitivity. Presented to Occupational and Environmental Medicine in Primary Care, The University of Utah, Jackson Hole, July, 1997.

Environmental Medicine for the Occupational Physician. Presented as the Oren Hatch Lecture, American Osteopathic College of Public Health and Preventive Medicine, Atlanta, April, 1997.

Introduction to Environmental Medicine and Multiple Chemical Sensitivity. Presented to combined classes in Environmental Science, University of Georgia, March, 1997.

Introduction to Environmental Medicine and Multiple Chemical Sensitivity. Presented to the Sixth Annual Worker's Compensation and Occupational Medicine Seminar, San Francisco, March, 1997.

Can Psychological Treatment Modalities Help in Managing Environmental Illness? Occupational and Environmental Medicine Reporter, (10)12, December, 1996.

Publications, Cont'd:

Risk Communication for Physicians and Federal Agency Interactions. presented during the American College of Occupational and Environmental Medicine, San Antonio, May, 1996, May, 1997.

MCS: Where Are We? Presented at Mealey's Toxic and Mass Torts, Philadelphia, March 21, 1996.

Unhealthy Schools? Occupational and Environmental Medicine Reporter, (10)3, March, 1996.

Can Neutral Treatment Modalities Help in Managing Environmental Illness? Occupational and Environmental Medicine Reporter, (9)10, October, 1995.

Legal Testimony: Are You Ready? Occupational and Environmental Medicine Reporter, (9)7, July, 1995.

Environmental Justice-A Significant Factor in Environmental Contamination Situations. Occupational and Environmental Medicine Reporter, (8)7, July, 1994.

Pre-hospital Care of the Chemically Injured Patient; Risk Communication for Physicians; Federal Agency Interactions; Hazardous Waste Site Operations. All presented during the American College of Occupational and Environmental Medicine, Chicago, April, 1994.

Opening remarks and overall responsibility for a national meeting on Low-Level Exposure to Chemicals and Neurobiologic Sensitivity. Baltimore, April, 1994.

The Medical Surveillance of Hazardous Waste Workers, Presented before a National Press Day for The American Osteopathic Association, Chicago, March, 1994.

The Good, The Bad, and the Ugly: Risk Communication for the Physician. Presented at the 11th Annual Occupational Safety and Health Institute, University of Minnesota, September, 1993

Effects of Chemicals and Hazardous Wastes on the Environment, Human Health, and Industry. Occupational and Environmental Medicine Reporter, (7)8, August, 1993.

Mitchell, F.L., McKinnon, H. Risk Assessment and Health Assessment: A Comparison. Presented at the International Congress on the Health Effects of Hazardous Waste. Atlanta, Georgia, May, 1993.

ATSDR: A Public Health Agency With and Environmental Mandate. Occupational and Environmental Medicine Reporter, (7)3, March, 1993.

Publications, Cont'd:

Crisis Management: The Corporate Medical Director Meets Superfund. Lecture to the Yale Program in Occupational and Environmental Medicine, Yale University, January, 1993.

Lead Exposure in Children. 12th Annual Family Practice Program, University of Kansas Medical Center, Wichita, Kansas. December, 1992.

Multiple Chemical Sensitivity: An Update. Seminar, Emory University School of Public Health, Atlanta, Georgia. November, 1992.

Childhood Lead Poisoning in Minority Populations. Presented at Annual Meeting of the National Medical Assn., San Francisco, August, 1992.

The Clinical Evaluation of Environmental Illness. Presented at the Annual Meeting of the American College of Occupational and Environmental Medicine, Washington, D.C., May, 1992.

Emergency Department Preparedness for Chemical Incidents. Presented at the Annual Meeting of Emergency Room Physicians, Chicago, IL, March, 1992.

Assessment of Environmental Illness. Given to Annual Meeting, American Public Health Assn., Atlanta, GA, Nov., 1991.

Environmental Medicine. Seminar presented at annual State of the Art Conference, ACOEM, Sr. Louis, Oct., 1991.

Evaluating Environmental Disease, The Role of Poison Control Centers in Emergency Response. Given to AAPCC/AACT Scientific Meeting, Tucson, AZ, Sept., 1990.

Hospital Preparedness for Chemical Emergencies, Given to Annual Meeting of American Public Health Assn, New York, Sept., 1990.

Preparation of Early Drafts and Coordination of ATSDR Report to Congress: The Nature and Extent of Lead Poisoning in Children of the United States. Atlanta: ATSDR, 1988.

Dealing With The Impossible - Contingency Planning for Chemical Emergencies; presented at and published in the Proceedings of the XI World Congress on Occupational Accidents and Diseases, Stockholm, Sweden, May, 1987.

Mitchell, F.L. and Baburich, S., The Nature and Extent of Lead Poisoning in Children of the United States, presented at and published in the Proceedings of the Second Nordic Conference: Trace Metals in Human Health and Disease, Odense, Denmark, 1987.

Toxic Waste Emergencies. Presented at the Scientific Meeting of the Carolinas Occupational Medical Association, December, 1986.

Publications, Cont'd:

Topical Issues in Occupational Health. Presented at the annual meetings of the Occupational Medical Administrators Association, Long Boat Key, Florida, 1985-88.

Gray, E.K., and Mitchell, F.L., When the Bodies Start to Fall; presented at and published in the *Proceedings of the Management of Uncontrolled Hazardous Waste Sites*, Washington, D.C., 1985

Kimbrough, R.D., Mitchell, F.L., and Houk, V.N.: Trichloroethylene: An Update, Journal of Toxicology and Environmental Health, Vol. 15, #3/4, 1985, p. 369-83.

Worker Safety and Health Risks. Presented at a workshop on Environmental Toxicology and Epidemiology, Worcester Foundation for Experimental Biology, Shrewsbury, Mass., June, 1985.

The Superfund Act and Notes on the Medical Surveillance of Hazardous Waste Workers. Presented to the XXI Occupational Health Conference, Dublin, Ireland, September, 1984.

The Assessment of Health Problems Associated with Hazardous Waste Sites: Design of Studies, Their Limitations, and Results to Date. Presented at Hazardous Materials Management, Kings Island, Ohio, August, 1984.

Mitchell, F.L.: The Medical Surveillance of Hazardous Waste Workers. Presented at and published in the *Proceedings of the Management of Uncontrolled Hazardous Waste Sites*, Washington, D.C., 1984.

Martin, W.F., Wallace, L.P., Wood, J.L., Mitchell, F.L.: A User Friendly Computer For A Hazardous Waste Occupational Safety and Health Problem. Presented to The International Symposium on Transfer of Information in Occupational Safety and Health, Nis, Yugoslavia, June, 1982.

Mitchell, F.L., Some Medical Issues of Workman's Compensation, in Supplemental Studies for the National Commission of State Workman's Compensation Laws, Vol. II, Study 19, Washington, D.C., 1973.

Mitchell, F.L., The Machinery of Comprehensive Health Care, J.A.O.A., 67:1129-33, June, 1968.

Mitchell, F.L., Emergency: Emergency Health Services, J.A.O.A., 67:544-6, January, 1968.

POSITIONS HELD, U.S. PUBLIC HEALTH SERVICE (1965-1995)

March 1987-

Chief Medical Officer

February, 1995

Agency for Toxic Substances and Disease Registry

(ATSDR)

Atlanta, Georgia, 30338

November, 1981-March, 1987 Special Assistant for Occupational

Medicine, Center for Environmental Health, (Superfund Implementation Group), Centers for

Disease Control, Atlanta, Georgia (Detail from NIOSH)

July, 1972-November 1981 Special Assistant for Medical Criteria, Senior

Advisory Staff, Division of Criteria Documentation and Standards Development, National Institute for Occupational

Safety and Health (NIOSH), Rockville, Maryland

November, 1971-July, 1972 Medicolegal Officer, National Commission on State Workman's Compensation Laws, Washington, D.C.

(Detail)

August, 1970-November, 1971 Deputy Director, Division of Health Care Services, Community Health Service, Health Service and Mental

Health Administration, Rockville, Maryland.

January, 1969. August, 1969 Deputy Chief, Office of Professional Services, Federal Health Program Services, Health Services and Mental Health Administration, Silver Spring,

Maryland

July, 1967-January, 1969 Acting Chief, Office of Special Health Services, Division of Direct Health Services, Silver Spring, Maryland.

January, 1967-July, 1967 Senior Medical Officer, Cuban Refugee Status

Adjustment Program, Miami, Florida.

November, 1966-January, 1967

Medicolegal Officer, Office of Equal

Health Opportunity, Department of Health, Education,

and Welfare, Washington, D.C.

July, 1966-January, 1967 Assistant Chief, Outpatient Department, U.S. Public Health Service Hospital,

Staten Island, New York.

July, 1965-July 1966 Medical Officer in Charge, U.S. Quarantine Station

1966 Nogales, Arizona.

SUBMITTAL TRANS	MITTAI	LFORM			•	No. <u>//</u>	
PROJECT:	•	n/Industrial Transfounty, Texas	formers Site	e Reme	dial Action		
AGENCY:	TNRCC	TNRCC					
CONTRACT NO.:	98 8005	98 800501 00					
DATE OF ISSUANCE:	July 30,	1998					
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ENGINEER:		international, LLC					
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List of Major Products by WRS Infrastructure & Environment Sol Lynn/Industrial Transformer Site Houston, Texas

Status Date: 07/31/98

Product Description	Spec. Reference	Manufacturer	Make/Model	Comments
Dual Containment HDPE Pipe	02155-2, 2.1	Asahi/America	Poly-Flo	
HDPE Vault	02155-3, 2.4	Plastic Fusion Fabricators	N/A	
Submersible Pump	02150-3, 2.1	Grundfos	S503-9	
Pump Motor	02150-3, 2.1	Franklin	N/A	
Pump Control Panel	16015-4, 2.5.A	Universal Environmental Technology	N/A ·	
Flow Meter & Transmitter	16015-5, 2.6.A	Badger	RCDL M25 meter w/ PFT-2E transmitter	
PLC	16015-5, 2.6.C	Universal Environmental Technology	N/A	

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List of Subcontractors by WRS Infrastructure & Environment Sol Lynn/Industrial Transformer Site Houston, Texas

Status Date: 07/31/98

Activity	Spec. Reference	Subcontractor	Address	Comments
·				
Monitor Well Installation & Development	02150	Petra Environmental, Inc.	1500 S. Dairy Ashford, Suite 225	
			Houston, Texas 77077	
Silty Zone Extraction Well Installation & Development	02150	Petra Environmental, Inc.	1500 S. Dairy Ashford, Suite 225	
		·	Houston, Texas 77077	
Electrical Installation	16010, 16015	Alief Electro-Mechanical	12123 Alpha Lane, Suite A	
			Houston, Texas 77072	
Transportation & Disposal	02125	Waste Management	3003 Butterfield Road	
			Oak Brook, Illinois 60523	
Surveying	01720	To Be Determined		
Geotechnical Testing	02110, 1.5	To Be Determined		
Concrete Cutting	N/A	To Be Determined		
Analytical Laboratory	02120-4, 3.2.E,	To Be Determined		<u> </u>

List of Subcontractors by WRS Infrastructure & Environment Sol Lynn/Industrial Transformer Site Houston, Texas

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PROJECT: Sol Lynn/Industrial Transformers Site Re Harris County, Texas AGENCY: TNRCC 98 800501 00 CONTRACT NO.: August 3, 1998 DATE OF ISSUANCE: WRS Infrastructure & Environment, Inc CONTRACTOR: ENGINEER: Radian International, LLC ROUTING SENT (Date, Signature) Contractor to Engineer **Engineer to Contractor** Contractor to Agency SUBMITTAL Item: Temporary Controls Plan Specification Section: Equipment D 1310-Z. Drawing No.: Location: Other: Number Of C Previous Submittal date: Revision Nu CONTRACTOR'S VERIFICATION This submittal meets all the requirements of the Contract Docu XX Without Exception Except for the Following Deviations Remarks: Contractor (Authorized Signature) Dat SUBMITTAL REVIEW ACTION No Exceptions Taken Number of Copies Returned **Exceptions as Noted** Rejected Remarks: 6 August 1998 By: Engineer (Authorized Signature) Date

Distribution:

Contractor

SUBMITTAL TRANSMITTAL FORM

Engineer TNRCC

TEMPORARY CONTROLS PLAN SO LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE HOUSTON, TEXAS

Prepared by:

WRS Infrastructure & Environment 650 N. Sam Houston Parkway E. #500 Houston, Texas 77060

August 3, 1998

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3.4 Staging Area	
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TEMPORARY CONTROLS PLAN

Sol Lynn/Industrial Transformers Superfund Site Houston, Texas

1.0 Introduction

This Temporary Controls Plan has been developed by WRS Infrastructure and Environment, Inc. (WRS) for work at the Sol Lynn/Industrial Transformer Superfund Site (site) in Houston, Texas. This project is being conducted under the jurisdiction and direction of the Texas Natural Resources Conservation Commission (TNRCC) and U.S. Environmental Protection Agency (EPA). The TNRCC has designated Radian International LLC (Radian) of Houston, Texas to represent their interest as Engineer.

This plan has been developed to address the issue of spill control. It is intended to meet project requirements for a Temporary Controls Plan as defined in Section 01560 (Temporary Controls) of the "Sol Lynn/Industrial Transformer Superfund Site Groundwater Remediation Design Technical Specifications--Final Package" (the Specifications) (Radian, June, 1998).

2.0 SITE BACKGROUND

The site is located in the southeastern portion of the City of Houston (Figure 2-1), adjacent to the feeder road for Loop 610. Its physical address is Blocks 1415, 1417, and 1419 South Loop West in Houston.

During the early 1970s, the site was used by the Industrial Transformer Company to clean and refurbish used transformers. Procedures used at the site resulted in the surficial release of transformer dielectric oils, at least some of which were polychlorinated biphenyl-based, and chlorinated solvents, primarily trichloroethene (TCE).

The released polychlorinated biphenyls (PCBs) were sorbed onto the surficial and near-surficial soils at the Site. PCBs have not been identified as chemical of concern in the groundwater at the site. TCE, however, migrated downward into the groundwater in the upper three water-bearing zones underlaying the site.

A groundwater remediation system was installed at the site to collect and treat water contaminated with TCE. Work under this contract involves modification and expansion of the existing groundwater remediation system, including:

- Mobilization of personnel and equipment;
- Site preparation;
- Expansion of the existing groundwater extraction system by converting 5 existing extraction/recharge wells to extraction service, and installing 4 new extraction wells;
- Expansion of the groundwater monitoring system by installing 9 new monitoring wells:
- Modification of the groundwater collection system including removal, decontamination, and disposal of existing piping; conversion of underground electrical control boxes to above ground service; and installation of associated electrical power, instrumentation and controls;
- Demobilization of personnel, construction equipment and temporary facilities.

3.0 TEMPORARY CONTROLS PLAN

This Temporary Controls Plan describes the temporary controls that will be implemented at the site during the course of the Work. Temporary controls include erosion and sedimentation controls, pollution controls, stormwater controls, maintenance and cleaning, temporary facilities, and traffic control.

3.1 Erosion and Sedimentation Control

Work required at the site will be planned and executed using methods that will minimize and control surface drainage in order to reduce erosion and sedimentation to the least amounts practical.

3.2 Pollution Control

3.2.1 Air Release Control

Air releases will be controlled by implementing the following procedures:

- Operators of heavy equipment and their supervisors will be made aware of the requirement for and the measures to be taken for minimizing the generation of dust clouds.
- Equipment and personnel will be provided and utilized as needed to apply water to
 dry work areas to trap and settle dust as specified in the Health and Safety Plan.
 Action levels and measures necessary to control dust are described in the Health and
 Safety Plan.

3.2.2 Water Pollution Control

Surface spill control measures will be implemented to prevent contamination of surface or groundwater by recovered contaminants, fuel, or other hazardous materials used, stored or handled on site by WRS. Specific control measures are detailed in the Spill Control Plan prepared for this project.

3.3 Maintenance Cleaning of Site

Covered containers will be located on site for the collection and containment of rubbish, debris, and non-hazardous waste. Waste materials will typically be disposed of weekly.

3.4 Staging Area

A staging area will be provided west of the treatment system for temporary storage of waste containers, equipment, and other materials used in construction. The staging area will be located

between the decontamination pad and the existing fence on the west side of the property. Since this area will be located inside the existing fence, no additional security measures will be required. The staging area will be restored to its original condition following construction activities.

3.5 Meeting Area

WRS will provide an office trailer that will be located adjacent to the staging area, west of the treatment system. Site meetings will be held in this trailer. Since the trailer will be located inside the fenced area, no additional security measures will be required. The engineer will be supplied with a key to the trailer.

3.6 Traffic Control

Traffic control measures will be implemented, as required, throughout the duration of the project. The Traffic Control Plan prepared for this project will be implemented during the installation of new monitoring wells located in Texas Department of Transportation right of ways. During other phases of work, WRS will take the following measures to control traffic:

- Restrict vehicular and pedestrian access to the site in accordance with the Site Security Plan.
- Monitor vehicular parking; restrict vehicular parking to construction personnel and other authorized persons; maintain vehicular access.
- Prevent construction parking on public roads that might be a hazard or a nuisance to the public.
- Provide flagon as needed to prevent hazardous conditions for construction and public traffic.
- Schedule and stagger trucks and material deliveries to minimize on site and off site congestion.
- Minimize disruption of the use of off site drives and roads.

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AGENCY:	TNRCC						
CONTRACT NO.:	98 800501 00						
DATE OF ISSUANCE:	August 3, 1998						
CONTRACTOR:		WRS Infrastructure & Environment, Inc.					
ENGINEER:	Radian International, LLC						
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Contractor Engineer TNRCC

SITE SECURITY PLAN SOL LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE HOUSTON, TEXAS

Prepared by:

WRS Infrastructure & Environment 650 N. Sam Houston Parkway E. #500 Houston, Texas 77060

August 3, 1998

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3.0 Site Security Plan	
3.1 Site Security Protocols	
3.2 Security During Emergencies	
3.3 Personnel Names and Qualifications	

SITE SECURITY PLAN

Sol Lynn/Industrial Transformers Superfund Site Houston, Texas

1.0 Introduction

This Site Security Plan has been developed by WRS Infrastructure and Environment, Inc. (WRS) for work at the Sol Lynn/Industrial Transformer Superfund Site (site) in Houston, Texas. This project is being conducted under the jurisdiction and direction of the Texas Natural Resources Conservation Commission (TNRCC) and U.S. Environmental Protection Agency (EPA). The TNRCC has designated Radian International LLC (Radian) of Houston, Texas to represent their interest as Engineer.

This plan has been developed to address site security. It is intended to meet project requirements for a Site Security Plan. These requirements are defined in Sections 01710 (Security) of the "Sol Lynn/Industrial Transformer Superfund Site Groundwater Remediation Design Technical Specifications--Final Package" (the Specifications) (Radian, June, 1998).

2.0 SITE BACKGROUND

The site is located in the southeastern portion of the City of Houston (Figure 2-1), adjacent to the feeder road for Loop 610. Its physical address is Blocks 1415, 1417, and 1419 South Loop West in Houston.

During the early 1970s, the Site was used by the Industrial Transformer Company to clean and refurbish used transformers. Procedures used at the site resulted in the surficial release of transformer dielectric oils, at least some of which were polychlorinated biphenyl-based, and chlorinated solvents, primarily trichloroethene (TCE).

The released polychlorinated biphenyls (PCBs) were sorbed onto the surficial and near-surficial soils at the Site. PCBs have not been identified as chemical of concern in the groundwater at the Site. TCE, however, migrated downward into the groundwater in the upper three water-bearing zones underlaying the Site.

A groundwater remediation system was installed at the site to collect and treat water contaminated with TCE. Work under this contract involves modification and expansion of the existing groundwater remediation system, including:

- Mobilization of personnel and equipment;
- Site preparation;
- Expansion of the existing groundwater extraction system by converting 5 existing extraction/recharge wells to extraction service, and installing 4 new extraction wells;
- Expansion of the groundwater monitoring system by installing 9 new monitoring wells:
- Modification of the groundwater collection system including removal, decontamination, and disposal of existing piping; conversion of underground electrical control boxes to above ground service; and installation of associated electrical power, instrumentation and controls;
- Demobilization of personnel, construction equipment and temporary facilities.

3.0 SITE SECURITY PLAN

This plan describes procedures and protocols that will be used to prevent entry into the site by unauthorized personnel, and to deter, restrict, and/or control financial losses to the TNRCC, EPA, Engineer, and WRS due to theft, embezzlement, vandalism, sabotage, and/or arson. These procedures and protocols conform to the requirements specified in Section 1710 of the Specifications.

3.1 Site Security Protocols

WRS will use onsite WRS personnel to provide site security during normal working hours. The existing site perimeter security system will be used to provide site security after hours, on weekends, and on holidays. In addition to the perimeter security system, a security fence posted with warning signs is located around the treatment plant area.

WRS will designate on site employees who will be responsible for site security. The Site Superintendent and SSO will have primary responsibility for site security, but may delegate some of their duties to other WRS personnel on site from time to time. These employees will be responsible for limiting site access, maintaining site entrance/exit logs, performing security checks, and preparing daily security logs, entrance logs, and security incident reports. Samples of these logs and reports are shown in Appendix A. Security checks will be conducted daily. The gates and perimeter fences will be visually inspected to ensure they are in good condition and that there has not been a security breach. If the fence or gates are damaged, they will be repaired immediately. Damaged or missing signs, barricades, or caution tape will be repaired or replaced as needed.

Unauthorized persons identified on site (i.e., vandals, trespassers, etc.) will be detained until local law enforcement officials can be summoned. Unauthorized personnel attempting to gain access to the site will be handled in the same manner.

3.2 Security During Emergencies

Standard operating procedures for responses to emergency situations are outlined in the site Specific Health and Safety Plan which has been prepared specifically for this project by WRS. All on site personnel will review and be familiar with the these procedures. A list of emergency contacts including the names and telephone numbers of the Site Superintendent, the Health and Safety Officer, and all applicable emergency support services will be posted in the job trailer.

WRS will coordinate with local law enforcement officials (i.e. police, sheriff, highway patrol, emergency medical corps units, fire department, and utility emergency teams) to map out contingency plans for emergency situations.

3.3 Personnel Names and Qualifications

WRS's Site Superintendent and Site Safety Officer will have primary responsibility for site security during normal work hours. Both Mr. Perry and Mr. Scott have worked on many project sites where security of this type is required and are well qualified to serve in this capacity.

SUBMITTAL TRANSMITTAL FORM

PROJECT:	Sol Lynn/Industrial Transformers Site Remedial Action Harris County, Texas				
AGENCY:	TNRCC				
CONTRACT NO.:	98 800501 00				
DATE OF ISSUANCE:	August 3, 1998				
CONTRACTOR:	WRS Infrastructure & Environment, Inc.				
ENGINEER:	Radian International, LLC				
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Distribution:

Contractor

Engineer TNRCC

SPILL CONTROL PLAN SOL LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE HOUSTON, TEXAS

Prepared by:

WRS Infrastructure & Environment 650 N. Sam Houston Parkway E. #500 Houston, Texas 77060

August 3, 1998

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3.3 Discharge Contingency	
3.4 Waste Disposal	
3.5 Additional Decontamination Procedures	

SPILL CONTROL PLAN

Sol Lynn/Industrial Transformers Superfund Site Houston, Texas

1.0 Introduction

This Spill Control Plan has been developed by WRS Infrastructure and Environment, Inc. (WRS) for work at the Sol Lynn/Industrial Transformer Superfund Site (site) in Houston, Texas. This project is being conducted under the jurisdiction and direction of the Texas Natural Resources Conservation Commission (TNRCC) and U.S. Environmental Protection Agency (EPA). The TNRCC has designated Radian International LLC (Radian) of Houston, Texas to represent their interest as Engineer.

This plan has been developed to address the issue of spill control. It is intended to meet project requirements for a Spill Control Plan.

2.0 SITE BACKGROUND

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The released polychlorinated biphenyls (PCBs) were sorbed onto the surficial and near-surficial soils at the site. PCBs have not been identified as chemical of concern in the groundwater at the site. TCE, however, migrated downward into the groundwater in the upper three water-bearing zones underlaying the site.

A groundwater remediation system was installed at the site to collect and treat water contaminated with TCE. Work under this contract involves modification and expansion of the existing groundwater remediation system, including:

- Mobilization of personnel and equipment;
- Site preparation;
- Expansion of the existing groundwater extraction system by converting 5 existing extraction/recharge wells to extraction service, and installing 4 new extraction wells;
- Expansion of the groundwater monitoring system by installing 9 new monitoring wells:
- Modification of the groundwater collection system including removal, decontamination, and disposal of existing piping; conversion of underground electrical control boxes to above ground service; and installation of associated electrical power, instrumentation and controls;
- Demobilization of personnel, construction equipment and temporary facilities.

3.0 SPILL CONTROL PLAN

This plan describes contingency measures for potential spills and discharges during work at the site, and for offsite transport of contaminated waste materials from the site. Any emergency or non-emergency spill response will be directed and coordinated by the Site Superintendent or his designee.

3.1 Spill Control Equipment

Table 4-1 contains a list of safety and emergency equipment to be kept onsite to control unexpected spills or discharges.

3.2 Spill Contingency

The contingency actions detailed in this plan will be taken by WRS if any of the following events occur:

- Spill of contaminated groundwater from collection piping;
- Spill of contaminated groundwater during purging, sampling, or treatment of groundwater;
- Spill of fuel during equipment refueling operations; or
- Other appreciable release of any regulated substance;

Emergency procedures in the event of injury are discussed in the Site Health and Safety Plan.

3.2.1 Emergency Measures

Measures to prevent or minimize the effects of hazardous material release may include the following:

- Limit to the spill area to necessary personnel. The emergency spill area will be cordoned off with caution tape to prevent direct contact with spilled material.
- Direct all persons to move upwind and out of low areas.
- Keep combustibles, flames, and sparks away from the spilled material.
- Use water or approved chemical spray to reduce vapors, as needed.
- With approval of Engineer remove, contain, and dispose of spilled solid materials in accordance with the waste handling procedures described in Section 3.4 of this plan
- Use berming or other temporary containment to reduce the spread of liquid spills.
- With approval of Engineer: (1) absorb liquids and/or sludge spills with suitable absorbent material. Dispose of the absorbent/spill mixture at suitable facilities, (2) pump and treat, or (3) transport and dispose of the liquid at suitable facilities as approved by Engineer.
- Take Samples for analysis to verify that cleanup is adequate.

• Follow the personnel and equipment decontamination procedures, and other applicable requirements of the Health and Safety Plan.

The initial response to any emergency will be to protect human health and safety and the environment. Identification, containment, treatment, and disposal assessment will be secondary responses. In case of a medial emergency, the nearest hospital, HCS Medical Center, Houston is approximately two miles from the site at 8081 Greenbriar. Evacuation routes to the hospital are described in the Site Health and Safety Plan.

During a spill control effort, the Site Superintendent will take measures to reduce the potential for fires, explosions, or additional releases to occur, recur, or spread to other sections of the facility. Measures to mitigate this potential may include:

- The curtailment of all deliveries;
- The containment, collection, and disposal of released wastes;
- The shut-down of all operations affected by the spill; and
- The application of inhibitory agents, such as foam, water or neutralizing agents.

The exact measures used will depend upon the type of material, the amount, and the location of the release. If the initial assessment of the spill indicates emergency support is required, the Site Superintendent will summon local emergency units, such as the City of Houston Fire and Police Departments.

3.2.2 Internal Facility Alert

It will be the duty of any employee observing a potential spill to take immediate action (without putting him/herself at risk) to minimize conditions contributing to the emergency (e.g., such as closing a valve). The Site Superintendent will be immediately notified of any release.

3.2.3 Material Characterization and Risk Assessment

Whenever there is a release, the Site Superintendent is responsible for ensuring that the characteristics, exact source, amount, and extent of any released materials are identified as quickly as possible. The Site Superintendent will use an inspection of the spill site and appropriate facility records (tank storage data, Material Safety Data Sheets, etc.) to make this determination. Chemical analysis of a spill and affected soils may also be used to determine the amount of soil contaminated.

The Site Superintendent will immediately assess the resulting hazards to human health and the environment. This assessment will consider the effects of any toxic, irritating, or asphyxiating gases that may be generated and the effects of any contaminated surface runoff. The following sections describe the principle hazardous materials that may be involved in an environmental incident at the facility, and pertinent characteristics of these materials. Additional information

will be available to the Site Superintendent from the Material Safety Data Sheets for certain Materials.

3.2.3.1 Halogenated Organics (i.e., TCE)

Immediate effects on human health may include asphyxiation, unconsciousness, liver and kidney damage, and dermatitis. Long term effects may include the above, plus effects from the material and by-products as carcinogen, mutanogenic, and teratogen. Halogenated organics may be flammable or combustible, and can be explosive under certain conditions. The combustion of these materials may result in the production of dangerous gases.

3.2.3.2 Fuels

Equipment fuel and maintenance materials such as gasoline, diesel, and oil may burn readily and emit dangerous fumes. Although toxicity levels are moderate, inhalation of fumes may cause respiratory problems.

3.2.3.3 Acid

Hydrochloric (muriatic) acid may be used by others on site to maintain well screens and keep them free of mineral deposits. Fumes from a release of this material may cause respiratory problems, and burning of the skin and eyes.

3.2.4 Notification of Local, State and Federal Agencies

If the Site Superintendent determines that the facility has experienced a release, which could threaten human health, safety, or the environment outside the facility, he will immediately notify appropriate local emergency authorities. The list of local emergency authorities to be notified and their phone numbers will be posted in the job trailer.

If the Site Superintendent determines that the facility has experienced a reportable quantity release, fire, or explosion that could threaten human health or the environment, other than worker exposure, he will immediately notify the EPA Superfund Enforcement Officer, and the TNRCC District Supervisor. The report will include:

- Name and telephone number of reporter;
- Name and address of facility;
- Time and type of incident (e.g., release, fire);
- Name and quantity of material(s) involved, to the extent known;
- The extent of injuries, if any; and
- The possible hazards to human health, safety, and the environmental outside the facility.

3.3 Discharge Contingency

Upon observing a spill or leak each employee must immediately notify his supervisor and inform him of the location, quantity, rate, and composition (if known) of the spill. The supervisor will immediately contact the Site Superintendent. The Site Superintendent will determine what action should be taken to respond to the leak. Possible volatile organic compound (VOC) emissions from spills will be monitored in real time with onsite VOC meters. If the leak involves non-hazardous material, personnel will be appointed to perform the clean-up as normal maintenance. The Site Safety Officer may also oversee the clean-up with emphasis on preventing an accident with hazardous materials that may be nearby.

If the spill involves hazardous material, the Site Superintendent will assume responsibility for the clean-up while working with the Health and Safety Officer. The Health and Safety Officer will determine the possible hazards to human health. The emergency measures outlined in Section 3.2 for spill contingencies will be followed.

3.4 Waste Disposal

All wastes resulting from an emergency will be retained on site to the extent possible, and disposed of in an appropriate and environmentally sound manner. Decontamination materials, absorbents, and personnel protective equipment will be containerized in drums and stored in the staging area for later disposal. Recovered groundwater released from the treatment plant will be routed to the stormwater runoff tank and retreated in the treatment plant. Other released liquids recovered from a spill or discharge incident that may not be placed into the treatment facility will be stored onsite in drums or portable tanks until an appropriate disposal method can be determined. Any impacted soils requiring remediation will be excavated and stockpiled, as practical until an appropriate disposal option can be chosen.

Because bulk liquids will be treated onsite, there is little potential for a spill or release of waste materials during transport to an offsite disposal facility. Should off-site disposal of waste liquids be required, it will be the responsibility of the waste transporter to ensure that the waste is handled appropriately and any material accidentally released is properly handled.

In order to reduce the potential for onsite or offsite spills during waste transport, an instructional briefing will be given to all drivers and transport subcontractors. This briefing will include the following:

- Onsite routing of vehicles;
- Site map with routes clearly marked;
- Instructions to avoid damage to monitoring wells;
- Location of public scales to be utilized;
- Weight-in/Weight-out procedures and documentation;
- Way bills;
- Stop for tarping;

- Health and Safety measures; and
- Other topics and questions that may arise.

3.5 Additional Decontamination Procedures

Additional decontaminated procedures may be conducted after cleanup if verification sampling and testing determines that residual concentrations exceed acceptable levels as determined by the Engineer. WRS will take all appropriate measures to remediate impacted soils or waters resulting from a spill or discharge from operations at the site. Some additional procedures that may be utilized include:

- Excavation, onsite aeration, and disposal of contaminated soils; and
- Collection and absorption of contaminated surface water.

Table 4-1 Spill Control Equipment List

Sol Lynn/Industrial Transformer Superfund Site Houston, Texas

ITEM	DESCRIPTION	LOCATION
Communication Equipment	Communication equipment includes air horns/vehicle horns to contact facility	Vehicles and Office Trailer
	personnel and mobile, and stationary telephones to contact off-site assistance.	
Berm Materials	Contain Spilled Liquids to smallest extent possible.	Staging Area
Absorbent Material (Hydrophobic	Available to contain and absorb material spills or leaks.	Equipment Storage
absorbent pads, granular clay		
absorbent)		
Portable Pumps	Available to assist in removing spilled liquids.	Equipment Storage
Tools	Available tools include flashlights, tape, pipe wrenches, box wrenches, etc.	Equipment Storage
Salvage Equipment	Available equipment includes covers, brooms, squeegees, etc. To assist in cleanup	Equipment Storage
	operation.	
Barricades and Barricade Tape	Used to restrict entry to spill areas.	Equipment Storage
Plastic Sheeting	Various containment Uses.	Equipment Storage
55-gallon Drums (USDOT 17-E)	Containerize contaminated materials and protective clothing.	Staging Area

SUBMITTAL TRANSMITTAL FORM

PROJECT:	Sol Lynn/Industrial Trans Harris County, Texas	formers Site	e Remedial Action
AGENCY:	TNRCC		
CONTRACT NO.:			
	98 800501 00		
DATE OF ISSUANCE:	August 3, 1998	 	
CONTRACTOR:	WRS Infrastructure & En		inc.
ENGINEER:	Radian International, LLC	<u></u>	
ROUTING	SENT (Date, Sig	nature)	Received (Date, Signature)
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Contractor to Agency			
SUBMITTAL			
Item: Environmental Pro	otection Plan		
Specification Section:		Equipmen	nt Designation:
1310-1, 1.3.13.5	· 1355-1, 1.4.A		
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By: _ thy Cor	sh.		6 August 1998
Engineer (Authoriz	ed Signature)		Date

Distribution:

Contractor Engineer TNRCC

ENVIRONMENTAL PROTECTION PLAN SOL LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE HOUSTON, TEXAS

Prepared by:

WRS Infrastructure & Environment 650 N. Sam Houston Parkway E. #500 Houston, Texas 77060

August 3, 1998

TABLE OF CONTENTS

1.0 Introduction	1
2.0 Site Background	2
3.0 Environmental Protection Plan	
3.1 Noise Levels	2
3.2 Resources Protection.	3
3.2.1 Land Resources Protection	
3.2.2 Water Resources Protection	3
3.2.3 Air Resources Protection	
3.3 Recording and Preserving Historical and Archaeological Finds	3
3.4 Protection of Fish and Wildlife	
3.5 Disposal of Debris	
3.6 Maintenance of Pollution Control Facilities	

ENVIRONMENTAL PROTECTION PLAN

Sol Lynn/Industrial Transformers Superfund Site Houston, Texas

1.0 Introduction

This Environmental Protection Plan has been developed by WRS Infrastructure and Environment, Inc. (WRS) for work at the Sol Lynn/Industrial Transformer Superfund Site (site) in Houston, Texas. This project is being conducted under the jurisdiction and direction of the Texas Natural Resources Conservation Commission (TNRCC) and U.S. Environmental Protection Agency (EPA). The TNRCC has designated Radian International LLC (Radian) of Houston, Texas to represent their interest as Engineer.

This plan has been developed to address environmental protection. It is intended to meet project requirements for an Environmental Protection Plan. These requirements are defined in 01355 (Environmental Protection) of the "Sol Lynn/Industrial Transformer Superfund Site Groundwater Remediation Design Technical Specifications—Final Package" (the Specifications) (Radian, June, 1998).

2.0 SITE BACKGROUND

The site is located in the southeastern portion of the City of Houston (Figure 2-1), adjacent to the feeder road for Loop 610. Its physical address is Blocks 1415, 1417, and 1419 South Loop West in Houston.

During the early 1970s, the site was used by the Industrial Transformer Company to clean and refurbish used transformers. Procedures used at the site resulted in the surficial release of transformer dielectric oils, at least some of which were polychlorinated biphenyl-based, and chlorinated solvents, primarily trichloroethene (TCE).

The released polychlorinated biphenyls (PCBs) were sorbed onto the surficial and near-surficial soils at the site. PCBs have not been identified as chemical of concern in the groundwater at the site. TCE, however, migrated downward into the groundwater in the upper three water-bearing zones underlaying the site.

A groundwater remediation system was installed at the site to collect and treat water contaminated with TCE. Work under this contract involves modification and expansion of the existing groundwater remediation system, including:

- Mobilization of personnel and equipment;
- Site preparation;
- Expansion of the existing groundwater extraction system by converting 5 existing extraction/recharge wells to extraction service, and installing 4 new extraction wells;
- Expansion of the groundwater monitoring system by installing 9 new monitoring wells;
- Modification of the groundwater collection system including removal, decontamination, and disposal of existing piping; conversion of underground electrical control boxes to above ground service; and installation of associated electrical power, instrumentation and controls;
- Demobilization of personnel, construction equipment and temporary facilities.

3.0 Environmental Protection Plan

The Environmental Protection Plan provides for the protection of the environment to the fullest extent practical during project execution, and the restoration of the environment at the project's completion, except as otherwise delineated by the Specifications.

3.1 Noise Levels

Excessive use of vehicle horns and unmuffled exhaust systems will not be tolerated. WRS will take corrective action to address such deficiencies.

3.2 Resources Protection

3.2.1 Land Resources Protection

WRS will preserve all land resources within the site premises in their present condition or restore them to a natural condition at the project completion. Site specific selective placement of materials will be performed so as to minimize erosion. WRS will comply with all applicable laws concerning soil erosion and sediment control, including the use of silt fence in disturbed areas, as necessary.

3.2.2 Water Resources Protection

WRS will not pollute any streams, rivers, waterways, or drainage channels with fuels, oils, solvents, acids, insecticides, herbicides, trash, or other harmful materials and substances. Soil erosion will be kept to a minimum by use of rough grading, hay bales, silt fencing, or other measures were necessary. Run-on and run-off storm water will be controlled as set forth in the Specifications. Stormwater run-on to the treatment or decontamination pads is limited by existing curbs and berms. Run-off that has not contacted the treatment or decontamination pads will be assumed to be uncontaminated and will be routed to a bar ditch leading to a storm water sewer. Run-off that is contained in the treatment of decontamination pads will be pumped into the stormwater detention tank and periodically routed into the groundwater treatment plant for treatment prior to discharge to the recharge system.

3.2.3 Air Resources Protection

WRS will minimize pollution of air by preventing fires and excessive equipment exhaust. The following actions will be taken by WRS to minimize air pollution:

- Instruct operators of heavy equipment (trucks, bull-dozers, backhoes, etc.) and their supervisors in the requirements for, and the measures necessary to be taken for minimizing the generation (stirring-up) of dust clouds and release in the atmosphere of noxious fumes;
- Provide and utilize equipment and personnel for water spray to trap and settle dust and fumes as specified in the Health and Safety Plan; and
- Apply the action levels and measures necessary to control dust and fumes, as described in the Health and Safety Plan.

3.3 Recording and Preserving Historical and Archaeological Finds

Any objects having apparent historical or archaeological value that are discovered in the course of construction activities will be faithfully preserved. Site personnel will leave the archaeological find undisturbed and immediately report the find to the Engineer so that the proper authorities may be notified.

3.4 Protection of Fish and Wildlife

Site personnel will perform work in a manner that will not endanger fish and wildlife. WRS will ensure that activities will not alter water flow or otherwise disturb any identified habitats which, in the opinion of Engineer, are critical to fish and wildlife. However, the site is located in a commercial area adjacent to downtown Houston, and significant natural habitats for fish and wildlife are not present.

3.5 Disposal of Debris

All debris resulting from operation on this site will be removed and disposed of by WRS. Transport and disposal will comply with all applicable Federal, State, and local laws. Such materials will be removed from the site prior to final completion and acceptance of the Work. All waste materials will be disposed of in accordance with the requirements of Section 02125 of the Specifications.

3.6 Maintenance of Pollution Control Facilities

All debris resulting from WRS operations at the site will be collected and disposed of off site. Transport and disposal of debris will comply with all applicable Federal, State, and local laws. Dumpsters, roll-off boxes, and trash drums will be located on site for containment and disposal of construction debris and non-hazardous solid waste. The non-hazardous waste containers will be emptied weekly (or as they are filled) during the project. All such materials will be removed from the site prior to final completion and acceptance of the Work.

APPENDIX A SAMPLE SECURITY LOG

DAILY SECURITY LOG

SOL LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE

Houston, Texas
WRS Project No. _____

Log Date:		_
WRS SECURITY INSPEC	<u>TOR</u>	
Name:		_
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	DAILY	SECURITY CHECK
FACILITY CHECKED	TIME	CONDITION/COMMENTS
Perimeter Fence		
Entrance Gates		
WRS Project Trailer		
Site Structures		
Parking Areas & Vehicles		
Other	************	

## ENTRANCE / EXIT LOG

## SOL LYNN/INDUSTRIAL TRANSFORMER SUPERFUND SITE

Houston, Texas

WRS Project 1	No:	

NAME	DATE	VEHICLE LICENSE NO.	TIME IN	TIME OUT
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## SUBMITTAL TRANSMITTAL FORM

PROJECT:	Sol Lynn/Industri Harris County, Te		ite Remedial Action	
AGENCY:	TNRCC			
CONTRACT NO.:	98 800501 00			
DATE OF ISSUANCE:	August 7, 1998			
CONTRACTOR:		re & Environment	Inc.	
ENGINEER:	Radian Internatio		,	
ROUTING	SENT (I	Date, Signature)	Received (Date	, Signature)
Contractor to Engineer	8-7-98	A Colem	- 8/10/98 de	in Korsa.
Engineer to Contractor	8/24/28	Ida Korda	7770	
Contractor to Agency		VO		
SUBMITTAL				•
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By: Alexander			<u>8-1-98</u>	
Contractor (Authorize	ed Signature)		Date	
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Engineer (Authorized	i Signature)		Date /	
Distribution: Contracto	r			
Engineer TNRCC				

#### SUBSTITUTION REQUEST FORM

No. _ 1 ___

PROJECT:

Sol Lynn/Industrial Transformers Site Remedial Action

Harris County, Texas

AGENCY:

TNRCC

CONTRACT NO.:

98 800501 00

DATE OF ISSUANCE:

August 7, 1998

CONTRACTOR:

WRS Infrastructure & Environment, Inc.

**ENGINEER:** 

Radian International, LLC

SPECIFIED ITEM:

Pipes and Pipe Fittings

Page	Section	Paragraph	Description
2155-2	2155	2.1	Pipes and Pipe Fittings

The undersigned requests consideration of the following:

PROPOSED SUBSTITUTION:

Poly-Flo Dual-Containment Pipe and Pipe Fittings.

Attached data include product description, specifications, drawings, photographs, performance, and test data adequate for evaluation of the request; applicable portions f the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

No changes required to Contract Documents.

The undersigned certifies that the following paragraphs, unless modified by attachments, are correct:

- 1. The proposed substitution does not affect dimensions shown on Drawings.
- 2. The undersigned shall pay for changes to the work, including engineering design, detailing and construction costs caused by the required substitution.
- 3. The proposed substitution shall have no adverse affection other trades, the progress schedule, or specified warranty requirements.
- 4. Maintenance and service parts shall be locally available for the proposed substitution.

5.

6. The undersigned further states that the function, appearance, and quality of the proposed substitution are equivalent or superior to the specified item.

SUBMITTED:	By: Contractor (Au	thorized Signature)	Date: 8-7-98	_
FOR USE BY THE ENG	VA	norized Signature)	Date: <u>8/20/98</u>	_
Accepted	Accepted as noted	Not Accepted	Others	_

Distribution:

Contractor

Engineer TNRCC



Westinghouse Remediation Services, Inc.

August 7, 1998

650 N. Sam Houston Parkway E. Suite 500 Houston, Texas 77060 (281) 820-0972 FAX (281) 820-4250

Mr. John Kovski, P.E. Radian International, LLC 9801 Westheimer, Suite 500 Houston, Texas 77042

RE: HDPE Pipe Substitution

Sol Lynn/Industrial Transformer Superfund Site

Houston, Texas

Dear Mr. Kovski:

WRS hereby formally requests a product substitution for the HDPE piping and fittings specified in Section 02155, Collection Piping System, Article 2.1, Pipes and Pipe Fittings, of the Contract Documents for the Sol Lynn/Industrial Transformer Superfund Site. The proposed substitute materials are manufactured by ASAHI/AMERICA under the trade name of Poly-Flo Dual Containment Pipe. The proposed pipe and fittings conform to ASTM D-3350 with minimum cell classification values of 345434C. ASAHI/AMERICA is located at 19 Green Street, Malden, MA 02148. WRS believes that the substitute product is equal to the specified product in all respects.

In accordance with the requirements of Section 01630, Article 1.6, Request for Substitutions, WRS offers the following information in support of this request for substitution:

- WRS has included, as an enclosure to this submittal, a copy of the ASAHI/
  AMERICA Engineering Design Guide which contains information related to the
  proposed substitute product. This publication contains general information related to
  pipe and pipe fittings as well as secondary containment system segmentation and leak
  detection. Specific data regarding material properties and chemical resistance
  characteristics of HDPE pipe are included in a separate attachment to this document.
- A list of similar projects in which this product was used is included as Attachment 1 to this submittal.
- An itemized comparison of the proposed substitution with the specified product is provided in the attached Table 1.

- The quality and performance of the proposed pipe and fittings will be equal to or superior to the specified pipe and fittings.
- Use of the proposed substitute materials will not result in any net change to the Contract Sum, will not have any effect on the construction schedule, and will not require changes in any other work or products.
- Replacement materials are readily available through distributors of the proposed product. One such distributor is Plastic Fusion Fabricators of Houston, Texas.

If you have any questions regarding the information contained in this submittal package or require any additional information on this product, please call me at 281-820-0972.

Sincerely,

WRS Infrastructure and Environment, Inc.

Joe Anderson, P.E. Project Manager



## TABLE 1, PRODUCT COMPARISON

Property/Test Method	Specified Product	Proposed Substitute Product
Density/ASTM D-1505	.955 gms/ccm	.957 gms/ccm
Melt Index/ASTM D-1238	< 0.15 gms/10 minutes	.10 gms/10 minutes
Flexural Modulus/ASTM D-638	110,000 or < 160,000 psi	136,000 psi
Tensile Strength/ASTM D-638	3,200 to < 3,500 psi	3,500 psi
Environmental Stree Crack	>1,500 hrs w/ 0 failures	> 10,000 hrs
Resistance/ASTM D-1693		
Hydrostatic Design Basis/ASTM	1,600 psi @ 23 degrees C	1,600 psi @ 23 degrees C
D-2837		
Slow-Crack-Growth	no slow-crack-growth	not provided
Failure/Batelle Rotary Test	pipe ring failures in 32	
	days @ 1,600 psi	
Chemical Resistance	none specified	see Attachment 1
Sizes	1"x3" and 2"x4"	1"x2" and 2"x3"



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No. 17

PROJECT:	<del>-</del>	Sol Lynn/Industrial Transformers Site Remedial Action			
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AGENCY:	TNRCC				
CONTRACT NO.:	98 800501 00				
DATE OF ISSUANCE:	<u>8-14-78</u>				
CONTRACTOR:	WRS Infrastructure & E		•		
ENGINEER:	Radian International, LI	<u>c</u>	<u> </u>		
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Contractor to Agency					
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Proposed'	Pipe 15 /2 mh	diameter	not so inch diameter.		
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Distribution:

Contractor Engineer TNRCC

#### SUBSTITUTION REQUEST FORM

No. 2

PROJECT:

Sol Lynn/Industrial Transformers Site Remedial Action

Harris County, Texas

AGENCY:

TNRCC

CONTRACT NO.:

98 800501 00

DATE OF ISSUANCE:

8-14-98

CONTRACTOR:

WRS Infrastructure & Environment, Inc.

ENGINEER:

Radian International, LLC

SPECIFIED ITEM:

Surface Casina

Page	Section	Paragraph	Description
2150 2	2150	2.1	Well Installation/Conversion

The undersigned requests consideration of the following:

PROPOSED SUBSTITUTION: 12 inch diameter, carbon steel surface casing

Attached data include product description, specifications, drawings, photographs, performance, and test data adequate for evaluation of the request; applicable portions? The data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

No changes required to Contract Documents.

The undersigned certifies that the following paragraphs, unless modified by attachments, are correct:

- 1. The proposed substitution does not affect dimensions shown on Drawings.
- 2. The undersigned shall pay for changes to the work, including engineering design, detailing and construction costs caused by the required substitution.
- 3. The proposed substitution shall have no adverse affect on other trades, the progress schedule, or specified warranty requirements.
- 4. Maintenance and service parts shall be locally available for the proposed substitution.
- 5. The undersigned further states that the function, appearance, and quality of the proposed substitution are equivalent or superior to the specified item.

Date: 8-14-98 SUBMITTED: ntractor (Authorized Signature) FOR USE BY THE ENGINEER: By: Date: Engineer (Authorized Signature)

Accepted as noted Not Accepted Others Accepted

Distribution:

Contractor

Engineer TNRCC

#### SUBSTITUTION REQUEST FORM

No.

PROJECT:		Sol Lynn/Industrial Transformers Site Remedial Action		
		Harris County, To	exas	
AGENCY:	-	TNRCC		
CONTRACT NO	D.:	98 800501 00		
DATE OF ISSU	ANCE:	8-14-98		
CONTRACTOR	t:		re & Environment, Inc.	
ENGINEER:	•	Radian Internation	nal, LLC	
SPECIFIED ITE	EM:	Sarther Cas	ing	
Page Sec	ction	Paragraph	Description	
2150 2 21:	50	2.1	Well Installation/Conversion	

The undersigned requests consideration of the following:
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- 5. The undersigned further states that the function, appearance, and quality of the proposed substitution are equivalent or superior to the specified item.

SUBMITTED:	By: Contractor (At	thorized Signature)	Date: <u>8-14-98</u>
FOR USE BY THE ENGINEE		orized Signature)	Date:
Accepted	_Accepted as noted  _	Not Accepted	Others

Distribution:

Contractor

Engineer TNRCC

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PROJECT:		Sol Lynn/Industrial Transformers Site Remedial Action Harris County, Texas		
AGENCY:	•	TNRCC		
CONTRACT	Γ NO.:	98 800501 00		
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No	changes requir	ed to Contract Docum	ents.	
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2. The undersigned shall pay for changes to the work, including engineering design, detailing and construction costs caused by the required substitution.

3. The proposed substitution shall have no adverse affect on other trades, the progress schedule, or specified warranty requirements.

4. Maintenance and service parts shall be locally available for the proposed substitution.

5. The undersigned further states that the function, appearance, and quality of the proposed substitution are equivalent or superior to the specified item.

SUBMITTED:	By: Contractor (At	thorized Signature)	Date: <u>8-14-98</u>	
FOR USE BY THE ENG		orized Signature)	Date:	
Accepted	Accepted as noted	Not Accepted	Others	
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Distribution:

Contractor

Engineer TNRCC

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AGENCY:	TNRCC					
CONTRACT NO.:	98 800501 00					
DATE OF ISSUANCE:	September 25, 1998	·····				
CONTRACTOR:	WRS Infrastructure & E	nvironment, Inc.				
ENGINEER:	Radian International, LI					
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Engineer (Authorize	d Signature)	Date	<u> </u>			

Distribution:

Engineer

P. 02/02 FAX NO. 2568520388 PFF SEP-25-98 FRI 14:16 · I" HDPE Pipe Penetration-QTY REQUIRED: 21 1 Ø 3-4"-Ø 3'-0" -Ø 2-9 13/16" 2" x 1" Poly-Flo IHDPE) Plain End Stub-Out PLAN VIEW 1:10 IT THE HOPE TOP Bouchard Model No. 1158B Cast Iron Manhole Frame w/ Bolted Lid B 6 1/2" 24" SDR 325 HDPE Pipe DETAIL B 1:4 1'-4" !'-2" 10 1/2" Extrusion Weld (External Only) 3/4" Polypropylena 10 3/4" Encapsulated Di 36" SDR 325 HDPE Pipe Back-Up Ring I" Thk. HDPE Base-**ELEVATION VIEW** Continuous Extrusion Weld (Typ) Hole for Well Casina-3 9/25/98 LDL Raise manway: Lower 2" Polyflo pen. 2 9/24/98/LDL Add 24" manway/cover; Shorten vertical. Plastic Fusion Fabricators, Inc. |9/20/98|_DL| Add 1" pen; 36" Dia; Shorten flanged pen. Your Total Containment Resource NO. DATE BY REVISION PFF Estimator 3455 Stanwood Blvd. • Huntsville, Alabama 35811 Date TEL: 256.852,0378 . FAX: 258.852,0388 . http://www.pffinc.com Drawn By: L Larsen Date: 9/15/98 Technician: PFF Job No. F98-

Date

Date:

Customer Approval

WRS Infrastructure & Environmental

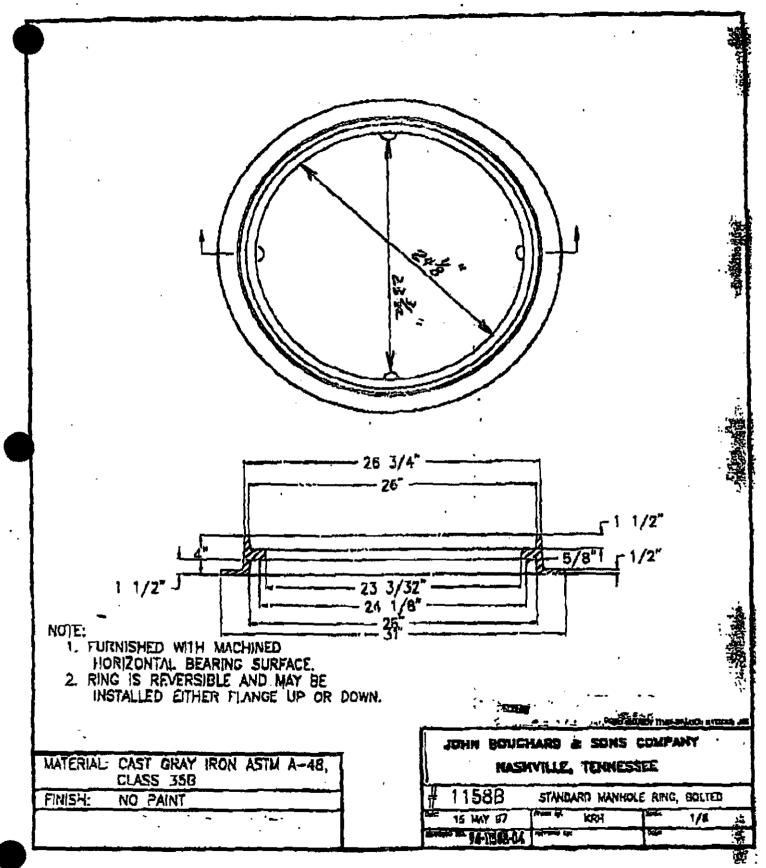
Extraction Wellhead Yoult HDPE

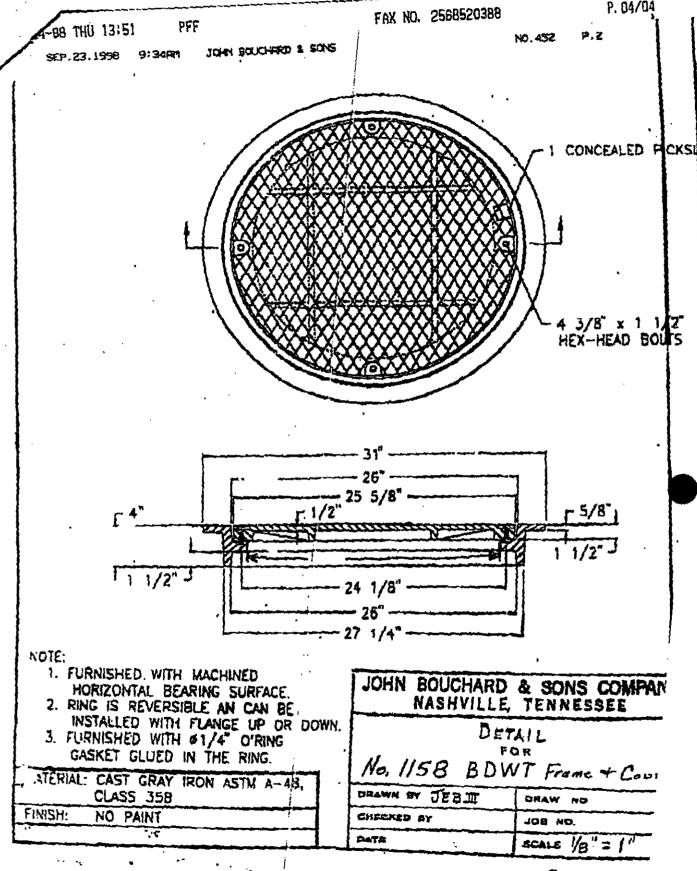
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P. 03/04 P.2 P. 02





## Submittal Schedule by WRS Infrastructure & Environment Sol Lynn/Industrial Transformer Site Houston, Texas

Status Date: 07/31/98

Submittal Description	Specification Reference	Timing Requirements	Planned Submittal	Comments
	<u> </u>	/I	<u></u>	Comments
Schedule of Values	01290-2, 1.4.A; 01310-1, 1.3.B.4	prior to pre-construction conference	7/29/98	
Schedule of Submittals	01310-1, 1.3.B.3	w/i 14 days of Executed Agreement	7/31/98	
Environmental Protection Plan	<b>01310-1</b> , 1.3.B.5	w/i 14 days of Executed Agreement	8/4/98	
List of Proposed Subcontractors .	01310-1, 1.3.B.7	w/i 14 days of Executed Agreement	7/31/98	
Proposed Temporary Controls Plan	01310-2, 1.3.B.8	w/i 14 days of Executed Agreement	8/4/98	
Questions - Work Site & Conduct of Work	01310-2, 1.3.B.11	as required	N/A	
Initial Estimated Progress Schedule	01320-1, 1.3.A; 01310-2, 1.3.B.13	w/i 14 days of Executed Agreement	7/29/98	<del></del>
Final Progress Schedule	01320-1, 1.3.D	job completion	10/5/98	
Revised Project Schedule	01320-1, 1.3.E	as required w/ progress meeting	N/A	
Submittal Register	01330-1, 1.3.A; 01310-1, 1.3.B.6	w/i 14 days of Executed Agreement	7/29/98	
Health & Safety Plan	01350-2, 1.4.A; 01310-1, 1.3.B.1	w/i 14 days of Executed Agreement	7/29/98	<del></del>
Contractor's Physician's Qualifications	01350-2, 1.4.C	none specified	7/31/98	
Details of Project Related Injuries & Illnesses	01350-2, 1.4.D	none specified	as required	
Employee Training Document./Certification	01350-2, 1.4.E	none specified	as required	
Employee Compliance Agreement	01350-3, 1.4.F	none specified	as required	
Employee Respiratory Fit Test Records	01350-3, 1.4.G	none specified	as required	
Medical Certificates	01350-3, 1.4.H	none specified	as required	
Logs & Reports	01350-3, 1.4.i	as required	as required	
Health & Safety Officer Qualifications	01350-3, 1.4.J	none specified	7/31/98	
Site Safety Officer Qualifications	01350-4, 1.4.K	none specified	7 <i>1</i> 31/98	
Proposal for Implementing this Section	01355-1, 1.4.A	prior to on-site construction	8/13/98	
Spill Control Plan	01355-3, 3.9.A	none specified	8/13/98	·
Progress Photos	01390-1, 1.3.A	monthly	ongoing	
Construction Quality Control Plan	01400-1, 1.3.A.1; 01310-1, 1.3.B.2	w/i 14 days of Executed Agreement	7/29/98	
TxDOT Approved Traffic Control Plan	01600-1, 1.3.A; 01310-2, 1.3.B.12	w/i 14 days of Executed Agreement	8/7/98	
List of Major Products	01630-1, 1.4.A, 01310-1, 1.3.B.7	w/i 14 days of Executed Agreement	7/31/98	
Request for Product Sustitutions	01630-1, 1.5.A; 01310-2, 1.3.B.9	w/i 14 days of Executed Agreement	8/3/98	·
Security Plan	01710-1, 1.3.A	none specified	8/4/98	
Site Security Protocols	01710-2, 3.2; 01310-2, 1.3.B.14	w/i 14 days of Executed Agreement	8/4/98	

Submittal Description	Specification Reference	Timing Requirements	Planned Submittal	Comments
Name & Quals of Registered Prof. Surveyor	01720-1, 1.4.A	before starting survey work	8/13/98	
As Built Drawings	01720-1, 1.4.C	final completion	11/4/98	•
Project Record Documents	01720-1, 1.5	final completion	11/4/98	
Surveys for Measurement & Payment	01720-2, 3.4.C	monthly	on-going	
Written Notice of Substantial Completion	01780-1, 1.3.A	substantial completion	10/5/98	
Written Certification of Final Completion	01780-1, 1.4.A	final completion	11/4/98	
Project Record Documents	01780-2, 1.6.A	project closeout	11/4/98	
Evidence of Payment & Release of Liens	01780-2, 1.6.B	project closeout	11/4/98	
Consent of Surety to Final Payment	01780-2, 1.6.C	project closeout	11/4/98	
Statement of Adjustment of Accounts	01780-2, 1.7	project closeout	11/4/98	
Application for Final Payment	01780-2, 1.8	project closeout	11/4/98	
Record Documents	01800-3, 1.5.A	contract closeout	11/4/98	
Test Reports	02110-1, 1.4.A	as required	on-going	
Monthly Operations Log	02120-2, 1.5.A	monthly	on-going	
Copies of Way Bills	02125-1, 1.3.A.1	none specifed	on-going	
Copies of Weigh-in/Weigh-out Tickets	02125-1, 1.3.A.2	none specified	on-going	
Copies of Manifests from Disposal Facility	02125-1, 1.3.A.3	none specified	on-going	•
Water Well Driller's Texas License	02150-2, 1.3.A.1	w/ pay request	monthly	
Driller's Current OSHA 1910.120 Training Certs	02150-2, 1.3.A.2	w/ pay request	monthly	
City of Houston Permit Information	02150-2, 1.3.A.3	w/ pay request	monthly	
Pipe Product Data	02155-2, 1.5.A	none specified	9/4/98	
Pipe Shop Drawings	02155-2, 1.5.B	none specified	9/4/98	
Pipe Record Drawings	02155-2, 1.5.C	final completion	11/4/98	
Pipe Manufacturer's & Installer's Qualifications	02155-2, 1.5.D	none specified	9/4/98	
Maintenance Data	02900-1, 1.7.A	none specified	10/5/98	
Restoration Evidence	02900-2, 1.10.A	before & after work	as required	·
Concrete Product Data	03300-1, 1.4.1	none specified	9/11/98	
	03300-1, 1.4.2	none specified	as required	
Departures from Diagrammatic Drawings	16010-4, 1.5.D	w/i 30 days of Contract Award	as required	
List of Electrical Material & Equipment	16010-5, 1.6.E	before purchase of equipment & mat'l	8/21/98	_
Electrical Record Drawings	16015-10, 3.9	none specified	11/4/98	
Electrical Testing Forms	16015-10, 3.10	none specified	9/22/98	

SUBMITTAL TRANSMITTAL FORM			No. <u>20</u>	
PROJECT:	Sol Lynn/Industrial Transi Harris County, Texas	nedial Action		
AGENCY:	TNRCC			
CONTRACT NO.	98 800501 00			
DATE OF ISSUANCE:	January 14, 1999	<del></del>		
CONTRACTOR:	WRS Infrastructure & Env	rironment, Inc.		
ENGINEER:	Radian International, LLC	<del></del>		
ROUTING	SENT (Date, Signa	ture)	Received (Date, Signature)	
Contractor to Engineer	1/14/99			
Engineer to Contractor	1/			
Contractor to Agency	V			
SUBMITTAL				
Item: As Built Drawings				
Specification Section:		Equipment Des	ignation:	
1720-1	, 1.4.C			
Drawing No.:	·	Location:		
Other:		Number of Cop	Copies:	
Previous Submittal Date:		Revision Numb	er·	
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Engineer (Authorized S	Signature)		Date	

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Contractor Engineer TNRCC

SUBMITTAL TRANSMITTAL FORM			No. <u>21</u>
PROJECT:	Sol Lynn/Industrial Tr Harris County, Texas	e Remedial Action	
AGENCY:	TNRCC		
CONTRACT NO.	98 800501 00		
DATE OF ISSUANCE:	January 14, 1999	· · · · · · ·	
CONTRACTOR:	WRS Infrastructure &	Environment,	Inc.
ENGINEER:	Radian International,		
ROUTING	SENT (Date, S	ignature)	Received (Date, Signature)
Contractor to Engineer	1/14/99	l	
Engineer to Contractor			
Contractor to Agency	V	<u>.</u>	
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SUBMITTAL			
Item: Spare Fuses			· · · · · · · · · · · · · · · · · · ·
Specification Section:		Equipmen	t Designation:
	4, 2.5.C	-1 <b>F</b> 3	
Drawing No.:	-	Location:	
Other:		Number of	
	NA		
Previous Submittal Date:		Revision N	Number:
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Remarks:			
By:			
Engineer (Authorized S	Signature)		Date

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Contractor

Engineer

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SUBMITTAL TRANSMITT	AL FORM			No. <u>22</u>
	Sol Lynn/Industrial Trans Harris County, Texas	formers Sit	te Remed	ial Action
	TNRCC			
CONTRACT NO.	98 800501 00			
DATE OF ISSUANCE:	January 14, 1999			
_	WRS Infrastructure & En	vironment,	Inc.	
ENGINEER:	Radian International, LLC	2		
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SUBMITTAL		· · · · · · · · · · · · · · · · · · ·		
Item: Spare Flow Meter	<u>.</u>			
Specification Section:		Equipmen	nt Designa	ation:
16015-5, 2	2.6.A			
Drawing No.:		Location:		
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Engineer (Authorized Sign	nature)	·		Date

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Contractor

Engineer TNRCC

SUBMITTAL TRANSMI	TTAL FORM	[		• =	No. <u>23</u>
PROJECT:	Sol Lynn/Ind	dustrial Trans	formers Si	te Remedia	al Action
		Harris County, Texas			
AGENCY:	TNRCC				
CONTRACT NO.	98 800501	00			
DATE OF ISSUANCE:	January 14,	1999			
CONTRACTOR:	WRS Infrast	tructure & En	vironment,	Inc.	
ENGINEER:	Radian Inter	national, LLC			
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Contractor to Agency					
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SUBMITTAL					
Item: Spare Control Relay	'S				
Specification Section:			Equipme	nt Designa	tion:
	i, 2.7.B.1				
Drawing No.:	-		Location:	:	
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Contractor

Engineer TNRCC

SUBMITTAL TRANSMI	TTAL FORM			No. <u>24</u>
PROJECT:	Sol Lynn/Industrial Trans	sformers S	ite Remedial	Action
<del></del>	Harris County, Texas			· • • • •
AGENCY:	TNRCC			
CONTRACT NO.	98 800501 00			
DATE OF ISSUANCE:	January 14, 1999			
CONTRACTOR:	WRS Infrastructure & Er	vironment	I. Inc.	
ENGINEER:	Radian International, LL		·,	•
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ROUTING	SENT (Date, Sign	ature)	Recei	ved (Date, Signature)
Contractor to Engineer	1/14/99 100			, , ,
Engineer to Contractor	17			
Contractor to Agency	<del> </del>			
				<u> </u>
SUBMITTAL				
Item: Electrical Test Form	S			
Specification Section:		Equipme	ent Designati	on:
16015-1	10, 3.10			·
Drawing No.:	·	Location	1:	
Other:		Number	of Copies:	
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Previous Submittal Date:		Revision	Number:	<u> </u>
CONTRACTOR'S VERI				
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By:

Contractor

Engineer TNRCC

Engineer (Authorized Signature)

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# SECTION 16015 INSTALLED MOTOR TEST FORM

·
Motor Equipment Number Date of test Date of test
Equipment Driven
Control Panel Location Group A-52EE-1
Ambient temp 16°F
Resistance: Insulation resistance phase-to-ground megohnus:
Phase A_ Phase B_ Phase C_ See 3 minimum 5 m
Current at Highest Operating Load:
Phase A Current 25  Phase B Current 25  Phase C Current 25  Voltage Phase 8-C 480  Voltage Phase C-A 480
Circuit breaker setting:
Motor Nameplate Markings:  Mfr Grundlus Mfr typeled: #0Frame 4" HP 1.5
Volts 9 Phase 3 RPM 3480 Service factor
Amps 3.4 Freq 60 Ambient temp rating°C
Time rating **Cesign letter (NEMA 1-10.35) (NEMA MG-1.16)
Code letter Insulation class
Required for 3-phase squirrel cage induction motors only.
CERTIFIED Date 12/11/98 Licensed Electrician

WITNESSED_____ Date _____
Engineer's Representative

Motor Equipment Number	Date of test <u>U/20</u> 9	8			+
Equipment Driven			•	· ·	
Control Panel Location GROUPA	-S282-2		<del></del>	•	, j
Ambient temp 15°F	•				
Resistance; Insulation resistance ph	nase-to-ground nilegohmis			• ,	c.
Phase A Phase B Phase	ase C_ see 3¢	minim	un E	5 mieg	ahn
Current at Highest Operating Load:		:			
Phase A Current 2.5 Phase B Current 2.5 Phase C Current 2.5	Voltage Phase A-B Voltage Phase B-C BC Voltage Phase C-A US	<u>/_</u>	: 	<del></del> .	
Circuit breaker setting: LOA	··· · -	ì		•	:
Motor Nameplate Markings:  Mfr Grundfox Mfr type Red Fra					
Volts 150 Phase 3 RPM 3450-Se Amps 3.4 Freq 60 Ambient to			: :		
Time rating***Design le (NEMA 1-10.35)	etter (NEMA MG-1.16)	· · · · · · · · · · · · · · · · · · ·	•	••	
Code letter Insulation of	class	:		•	•
*Required for 3-phase squirrel ca	·	•	• •		. !
CERTIFIED Date Licensed Electrician	12/11/98			· · · · -	-
WITNESSED Date Engineer's Representative	B	· ;	: •		

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Section, 16015 - 12

Motor Equipment Number Date of test $\frac{N/20/98}{}$	- · · · · · · · · · · · · · · · · · · ·
Equipment Driven	· .
Control Panel Location Glaup 8-5282-3	
Ambient temp 15 °F	
Resistance: Insulation resistance phase-to-ground megohnus:	
Phase A Phase B Phase C _ See 3 pm	nimem 5 megahns
Current at Highest Operating Load:	
Phase A Current 2.5 Phase B Current 2.5 Phase C Current 2.5 Voltage Phase B-C 480 Voltage Phase C-A 480	
Circuit breaker setting: 10A	
Motor Nameplate Markings:  Mir Creund fos Mir typeled   Frame 4" HP 1.5	
Volts 49 Phase 3 RPM Service factor	
Amps 34 Freq 60 Ambient temp rating°C	
Time rating **Design letter (NEMA 1-10.35) (NEMA MG-1.16)	
Code letter Insulation class	
Required for 3-phase squirrel cage Induction motors only.  CERTIFIED Date 10/11/98  Licensed Electrician	
WITNESSED Date Engineer's Representative	<u> </u>

Motor Equipment Number D	ate of test 11/30/98		·· ·
Equipment Driven		•	
Control Pane Location GROUP B - ST	2EL-4	: , <del>-</del>	
Ambient temp 75 °F			
Resistance: Insulation resistance phase	-to-ground niegohnis:		
Phase A, Phase B, Phase	c_ see 36 mir	nimum 5 v	negalma
Current at Highest Operating Load:	•		J
Phase B Current 25 Vo	Itage Phase A-B 480 Itage Phase B-C 480 Itage Phase C-A 480	- <del> </del>	and the second of the second o
			•
Circuit breaker setting: 10A			•
Motor Nameplate Markings:			
Mfr Sturdes Mfr typeRedi-Prame	<u>Ψ HP 1.5</u>		
Volts 486 Phase 3 RPM3487 Service	ce factor		
Amps 34 Freq 60 Ambient temp	rating°C		
Time rating**Design letter (NEMA 1-10.35) (I	NEMA MG-1.16)	:	
Code letter Insulation class	5		•
*Required for 3-phase squirrel cage i	induction motors only,		
CERTIFIED Date 12	111/48	· · · · · · · · · · · · · · · · · · ·	
	-		
WITNESSED Date			., .,

		· ,
Motor Equipment Number Date of test 4/20/98		·
Equipment Driven		•
Control Panel Location Geoup C-SZEL-5-	· · · · · · · · · · · · · · · · · · ·	
Ambient temp 15°F	-	•
Resistance: Insulation resistance phase-to-ground riegohnis:	A ·	· ·
Phase A_ Phase B_ Phase C_ 11 3 pm	unimum 5 n	regalms
Current at Highest Operating Load:		:
Phase A Current 2.5 Phase B Current 2.5 Phase C Current 2.5 Voltage Phase B-C 480 Voltage Phase C-A 480	<u>-</u>	
Circuit breaker setting: 10 A	•	
Motor Nameplate Markings:		
Mir Gaund fos Mir type Redi-St Frame 4" HP 1.5	:	•
Volts480 Phase 3 RPM3KD*Service factor		· -
Amps 3.4 Freq 60 Ambient temp rating°C		
Time rating Design letter (NEMA 1-10:35) (NEMA MG-1.16)	: ;	<del></del> :
Code letter Insulation class		•
Required for 3-phase squirrel cage induction motors only.		·
CERTIFIED Date 10/11/98 Licensed Editician		
WITNESSEDDate		· ·

Motor Equipment Number Date of test 11/20/98	;
Equipment Driven	-
Control Panel Location Group B-S2E-6	• •
Ambient temp 75°F	
Resistance: Insulation resistance phase-to-ground megohnis:	:
Phase A_Phase B_Phase C_All 30 minumum 5 miga	rund
Current at Highest Operating Load:	
Phase A Current 2.5  Phase B Current 2.5  Phase C Current 2.5  Voltage Phase B-C 480  Voltage Phase C-A 460	:
Circuit breaker setting: LDA	:
Motor Nameplate Markings:  Mfr Greundfos Mfr type Redi- Frame 4 ¹¹ L HP 1.5  Volts 480 Phase 3 RPM 5450 Service factor	·
Amps 3.4 Freq 60 Ambient temp rating°C	
Time rating***Design letter (NEMA 1-10.35) (NEMA MG-1.16)	٠
Code letter Insulation class	
Required for 3-phase squirrel cage induction motors only.  CERTIFIED Date 12/11/98  Licensed Electrician	. <del>.</del>
	_
WITNESSED Date	

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Motor Equipment Number	Date of test 11 20 198
Equipment Driven	
Control Panel Location Greoup Des	22.7
Ambient temp 75 °F	· · · · ·
Resistance: Insulation resistance pl	
Phase A Phase B Ph	ase C_ See 36 milinium 5
Current at Highest Operating Load:	
Phase A Current 2-5 Phase B Current 2-5 Phase C Current 2-5	Voltage Phase A-8 480 Voltage Phase B-C 480 Voltage Phase C-A 680
Circuit breaker setting: <u>(O.F</u> )	· · · · · · · · · · · · · · · · · · ·
Motor Nameplate Markings: Mfr Grundfos Mfr type fud 16 F	•
Volts 980 Phase 3 RPM SO S	·
Time rating **Design k (NEMA 1-10.35)	(NEMA MG-1.16)
Code letter Insulation	
Required for 3-phase squirrel ca CERTIFIED Date!	age induction motors only.
WITNESSED Date Engineer's Representative	· · · · · · · · · · · · · · · · · · ·

Motor Equipment Number Date	of test 11/20/98
Equipment Driven	
Control Panel Location Group C-S72	&
Ambient temp 75 °F	•
Resistance: insulation resistance phase-to	-ground niegohnis:
Phase A, Phase B, Phase C	- see 30 minimum 5
Current at Highest Operating Load:	
Phase B Current 2.5 Voltag	ge Phase A-8 490 ge Phase B-C 490 ge Phase C-A 480
Circuit breaker setting: LOA	
Motor Nameplate Markings:	
Mir Grundlos Mir typelidifle Frame L	HP LS
Volts480 Phase 3_ RPM 346 Service	factor
Amps 3.4 Freq 49 Ambient temp re	iting°C
Time rating**Design letter(NEMA 1-10.35) (NE	MA MG-1.16)
Code letter Insulation class _	<u> </u>
Required for 3-phase squirrel cage ind	
CERTIFIED Date 12	<u> </u>
WITNESSED Date Engineer's Representative	

· ·		•		
Motor Equipment Number	Date of test	1/20/98		<del></del>
Equipment Driven				
Control Panel Location Group C	<u>-</u> \$28-9 -	· <b>-</b> · ·		- <del></del>
Ambient temp 75°F		; *		•
Resistance: Insulation resistance ph				
Phase A, Phase B, Pha	ase C_ su	30 mi	ninum	.5 m
Current at Highest Operating Load:		/		
Phase A Current 2.5 Phase B Current 2.5 Phase C Current 2.5	Voltage Phase Voltage Phase Voltage Phase	в-с <u>480</u>	· · · · · · · · · · · · · · · · · · ·	to a a man far
	•	:		
Circuit breaker setting: 109	-			
Motor Nameplate Markings:  Mfr Glundsos Mfr typeladiffo Fr  Volts Phase 3 RPM Sosa  Amps 3 4 Freq GD Ambient to	ervice factor	:	• • • • • • • • • • • • • • • • • • •	
Time rating Design le (NEMA 1-10.35)		· :	:	
Code letter Insulation of	class			
Required for 3-phase squirrel ca  CERTIFIED Date  Licensed Empirician	ge induction mo	•		•
Localities Eliphodia		•	•	••

WITNESSED Date Engineer's Representative

SUBMITTAL TRANSMIT	TAL FORM			No. <u>25</u>
PROJECT:	Sol Lynn/Industrial Tra Harris County, Texas	insformers Site	Remedial Action	
AGENCY:	TNRCC			
CONTRACT NO.	98 800501 00			
DATE OF ISSUANCE:	January 14, 1999			· ···
CONTRACTOR:	WRS Infrastructure &	Environment, In	c.	
ENGINEER:	Radian International, L		······································	
•	· <del>-</del>	<del></del> -		
ROUTING	SENT (Date, Si	gnature)	Received (Da	te, Signature)
Contractor to Engineer	1/14/99	Ocean		
Engineer to Contractor				
Contractor to Agency	<b>→</b>			
•				_
SUBMITTAL				<u> </u>
Item: PLC Manual				
Specification Section:		Equipment I	Designation:	
Drawing No.:	<u> </u>	Location:		· <del></del>
Other:		Number of (	Copies:	
Previous Submittal Date:		Revision Nu	ımber:	<del></del>
CONTRACTOR'S VERIF			<del>" -</del>	
This submittal meets all th				
XX Without Exception	Except for the l	following Devia	tions:	
Remarks:				
		-		
By: Colina			January 14,	<u> 1999</u>
Contractor (Authorized S	Signature)		Date	
V				
SUBMITTAL REVIEW A			•	
Number OF Copies Re	<del></del>	eptions Taken	Revise	e and Resubmit
Exceptions as Noted	Rejecte	<u>:d</u>		
Remarks:				
		****		
				<del> </del>
By:				
Engineer (Authorized Sig	gnature)		Date	

Distribution:

Contractor

Engineer TNRCC

#### Instructions for FLOW INDICATOR PANEL

#### A. Initial Connections

- 1) Connect through a switch 115 VAC power to the appropriate terminals in the FIP marked by tags.
- Connect the individual wires of the incoming cables as indicated in Drawing E-4. Plugs must be carefully removed for access to terminal screws. After making connections, plugs must be reinserted.

# B. Start Up

- 1) Power up FIP by turning on power.
- 2) Channel Access is accomplished by initially pushing the Menu button on the Operator Panel (OP).
- 3) Channel 1 should be indicated on the screen of the Operator Panel.
- 4) To access a particular Channel, Push Clear/Abort. Wait a few seconds and when the screen provides the new message, push the up/down arrows until the desired channel is indicated on the screen. Then push enter and the total gallons and GPM will be displayed. For another channel, just push the Clear/Abort and repeat steps.

#### C. Reference: WRS-FIP-TEST SHEET

This sheet provides information about the FIP:

Terminal Position#: E-4 numbering system.

Designation: Well Designation per E-4.

F4-08MPI Slot: PLC Slot - See E-4.
Channel: Refers to F4-08MPI.

Test Results: Final Check of each channel E-4.
Start Gallons: Amount of Gallons Pumped On each

channel during test and debug.



TERMINAL POSITION #	DESIGNATION	F4-08MPI SLOT	CHANNEL #	TEST RESULTS	START GALLONS	REMARKS
1	∤E-1	SLOT 0	1	ок	14,211	
2	MW-27	SLOT 0	2	ОК	29	
3	MW-28	'SLOT 0	3	ок	23	
4	MW-29	SLOT 0	4	ок	18	
5	MW-30	SLOT 0	5	ОК	20	
6	MW-31	SLOT 0	6	ОК	20	
7	MW-32	SLOT 0	7	ОК	21	
8	MW-33 .	SLOT 0	8	ок	77	
9	MW-34	SLOT 1	1	ОК	88	
10	SE-1	SLOT 1	2	ОК	45	
11	SE-2	SLOT 1	3	OK :	21	
12	SE-3	SLOT 1	4	OK	23	
13	SE-4	SLOT 1	5	ОК	20	
14	SE-5	SLOT 1	6	ОК	63	
15	SE-6	SLOT 1	7	ОК	23	
16	SE-7	SLOT 1	8	ОК	17	
17	SZE-1	SLOT 2	1	OK	1,030	
18	SZE-2	SLOT 2	2	OK	25	
19	SZE-3	SLOT 2	3	ОК	23	
20	SZE-4	SLOT 2	4	OK	25	
21	SZE-5	SLOT 2	5	ок	29	-
22	SZE-6	\$LOT 2	6	ОК	27	

# WRS-FIP-TEST SHEET

TERMINAL POSITION #	DESIGNATION	F4-08MPI SLOT	CHANNEL #	TEST RESULTS	START GALLONS	REMARKS
23	SZE-7	SLOT 2	7	OK	54	
24	SZE-8	SLOT 2	8	ок	23	
25	SZE-9	SLOT 3	1	OK	20	
26	SZER-1	SLOT 3	2	ОК	24	
27	SZER-2	SLOT 3	3	OK	18	
28	SZER-3	SLOT 3	4	OK	243	
29	SZER-4	SLOT 3	5	OK	15	
30	SZER-5	SLOT 3	6	OK	22	
31	SPARE	SLOT 3	7	ОК	212	
. 32	SPARE	SLOT 3	8	OK	39	
	·					
	···					
		-				
					<u> </u>	
					<u> </u>	

new1

System Configuration:

System Description: "new1" System Type: Single Panel

Panel Type: OM620

PLC Register Addr: V2000

# PLC Configuration:

PLC Family: Koyo

PLC Model: DirectLogic 440

Protocol: K Sequence

PLC Address: 1 PLC Timeout: 10 Baud Rate: 19200

Parity: ODD
Data Bits: 8
Stop Bits: 1

## ----- PANEL CONFIGURATION(S) -----

Panel Type: OM620 Module Address: 0

PLC Base Register Addr: V2000

#### Pushbuttons:

1 : Momentary
2 : Alternate
3 : Alternate
4 : Alternate
5 : Alternate

#### Messages:

NUI	4	MESSA	GE .	ACT	CION F	ORMAT	RANGE
1		"FIOW	INDICATOR PANEI				
2	_		"MENU" BUTTON	<del>-</del> '			
3			RATE:^^.^ GPM		Y BC	:D	
4		"TOTAL				D DBL	
5			RATE: ^^.^GPM	=			
6	:	"TOTAL	^^^^^ GAI	" DSPI	LY BC	D DBL	
7	: .	"MW-28	RATE: ^^.^GPM	ı" DSPI	LY BC	:D	
8	:	"TOTAL	^^^^^^ GAI	L" DSPI	LY BC	D DBL	
9	:	"MW-29	RATE: ^^.^GPM	ı" DSPI	Y BC	:D	
10	:	"TOTAL	^^^^^^ GAI	J" DSPI	Y BC	D DBL	
11	:	"MW-30				D .	
12		"TOTAL		J" DSPI	LY BC	D DBL	
13		"MW-31					
14		"TOTAL			Y BC	D DBL	
		"MW-32					
16	:	"TOTAL	^^^^^^ GAI	J" DSPI	LY BC	D DBL	

```
17: "MW-33
             RATE: ^^.^GPM"
                              DSPLY
                                      BCD
              ^^^^^ GAL"
                                      BCD DBL
18 · "TOTAL
                              DSPLY
             RATE: ^^.^GPM"
     "MW-34
                              DSPLY
                                      BCD
19
20 : "TOTAL
              ^^^^^ GAL"
                              DSPLY
                                      BCD DBL
            RATE: ^^.^GPM "
     "SE-1
                                      BCD
21 :
                              DSPLY
              ^^^^^ GAL"
22
  : "TOTAL
                              DSPLY
                                      BCD DBL
            RATE: ^^.^GPM "
23
     "SE-2
                              DSPLY
                                      BCD
24
     "TOTAL
              ^^^^^ GAL"
                                      BCD DBL
                              DSPLY
            RATE: ^^.^GPM "
25
  : "SE-3
                              DSPLY
                                      BCD
              ^^^^^ GAL"
26
                                      BCD DBL
  : "TOTAL
                              DSPLY
27
  : "SE-4
            RATE: ^^.^GPM "
                                      BCD
                              DSPLY
              ^^^^^ GAL"
28
     "TOTAL
                              DSPLY
                                      BCD DBL
            RATE: ^^.^GPM "
29
  : "SE-5
                                      BCD
                              DSPLY
              ^^^^^ GAL"
30 : "TOTAL
                                      BCD DBL
                              DSPLY
31
  : "SE-6
            RATE: ^^.^GPM "
                              DSPLY
                                      BCD
32
     "TOTAL
              ^^^^^ GAL"
                                      BCD DBL
                              DSPLY
            RATE: ^^.^GPM "
33
     "SE-7
                              DSPLY
                                      BCD
              ^^^^^ GAL"
34
  : "TOTAL
                              DSPLY
                                      BCD DBL
             RATE: ^^.^GPM"
35
     "SZE-1
                                      BCD
                              DSPLY
  : "TOTAL
              ^^^^^ GAL"
36
                              DSPLY
                                     BCD DBL
37
     "SZE-2
             RATE: ^^.^GPM"
                              DSPLY
                                     BCD
              ^^^^^ GAL"
38
  : "TOTAL
                                      BCD DBL
                              DSPLY
39 : "SZE-3
             RATE: ^^.^GPM"
                              DSPLY
                                      BCD
              ^^^^^ GAL"
40
  : "TOTAL
                                      BCD DBL
                              DSPLY
             RATE: ^^.^GPM"
41
  : "SZE-4
                                      BCD
                              DSPLY
42
              ^^^^^ GAL"
     "TOTAL
                              DSPLY
                                      BCD DBL
             RATE: ^^.^GPM"
43
  : "SZE-5
                              DSPLY
                                      BCD
              ^^^^^ GAL"
44
     "TOTAL
                                      BCD DBL
                              DSPLY
  : "SZE-6
             RATE: ^^.^GPM"
45
                              DSPLY
                                      BCD
     "TOTAL
              ^^^^^ GAL"
46
                              DSPLY
                                      BCD DBL
47
  : "SZE-7
             RATE: ^^.^GPM"
                                      BCD
                              DSPLY
              ^^^^^ GAL"
48
  : "TOTAL
                              DSPLY
                                      BCD DBL
             RATE: ^^.^GPM"
49
  : "SZE-8
                              DSPLY
                                      BCD
              ^^^^^ GAL"
50
  : "TOTAL
                              DSPLY
                                      BCD DBL
             RATE: ^^.^GPM"
51
     "SZE-9
                              DSPLY
                                     BCD
              ^^^^^ GAL"
52
  : "TOTAL
                              DSPLY
                                      BCD DBL
53
  : "SZER-1 RATE: ^^.^GPM"
                                      BCD
                              DSPLY
              ^^^^^ GAL"
54
  : "TOTAL
                                     BCD DBL
                              DSPLY
  : "SZER-2 RATE: ^^.^GPM"
55
                              DSPLY
                                      BCD
              ^^^^^^ GAL"
                                      BCD DBL
56
  : "TOTAL
                              DSPLY
  : "SZER-3 RATE: ^^.^GPM"
57
                              DSPLY
                                      BCD
              ^^^^^^ GAL"
58
     "TOTAL
                                     BCD DBL
                              DSPLY
  : "SZER-4 RATE: ^^.^GPM"
59
                              DSPLY
                                      BCD
              ^^^^^ GAL"
60
     "TOTAL
                              DSPLY
                                     BCD DBL
  : "SZER-5 RATE: ^^.^GPM"
61
                                     BCD
                              DSPLY
62
  : "TOTAL
              ^^^^^ GAL"
                                     BCD DBL
                              DSPLY
63
             RATE: ^^.^GPM"
  : "SZER-
                                      BCD
                              DSPLY
              ^^^^^ GAL"
64: "TOTAL
                              DSPLY
                                     BCD DBL
65 : "SZER- RATE: ^^.^GPM"
                              DSPLY
                                     BCD
```

66 : "TOTAL ^^^^^ GAL" DSPLY BCD DBL

Messages 129-160: in use by menu tree

# Menu tree:

161	NUM		FCTN	LE	VEL	MENU ITEM TEXT	
	1	:	1	1	*	"IE-1	11
	2	:	2	1	*	"MW-27	***
	3	:	3	1	*	"MW-28	77
	4	:	4	1	*	"MW-29	11
	5	:	5	1	*	"MW-30	**
	6	:	6	1	*	"MW-31	11
	7	:	7	1	*	"MW-32	n
	8	:	8	1	*	"MW-33	"
	9	:	9	1	*	"MW-34	71
	10	:	10	1	*	"SE-1	**
	11	:	11	1	*	"SE-2	**
	12	:	12	1	*	"SE-3	77
	13	:	13	1	*	"SE-4	**
	14	:	14	1	*.	"SE-5	11
	15	:	15	1	*	"SE-6	**
	16	:	16	1	*	"SE-7	n
	17	:	17	1	*	"SZE-1	77
	18	:	18	1	*	"SZE-2	11
	19	:	19	1	*	"SZE-3	11
	20	:	20	1	*	"SZE-4	"
	21	:	21	1	*	"SZE-5	**
	22	:	22	1	*	"SZE-6	tı
	23	:	23	1	*	"SZE-7	11
	24	:	24	1	*	"SZE-8	11
	25	:	25	1	*	"SZE-9	**
	26	:	26	1	*	"SZER-1	17
	27	:	27	1	*	"SZER-2	77
	28	:	28	1	*	"SZER-3	ŧı
	29	:	29	1	*	"SZER-4	Ħ
	30	:	30	1	*	"SZER-5	*1
	31	:	31	1	*	"SZER-	PT
	32	:	32	1	*	"SZER-	11
						<b></b>	

440

11/14/98

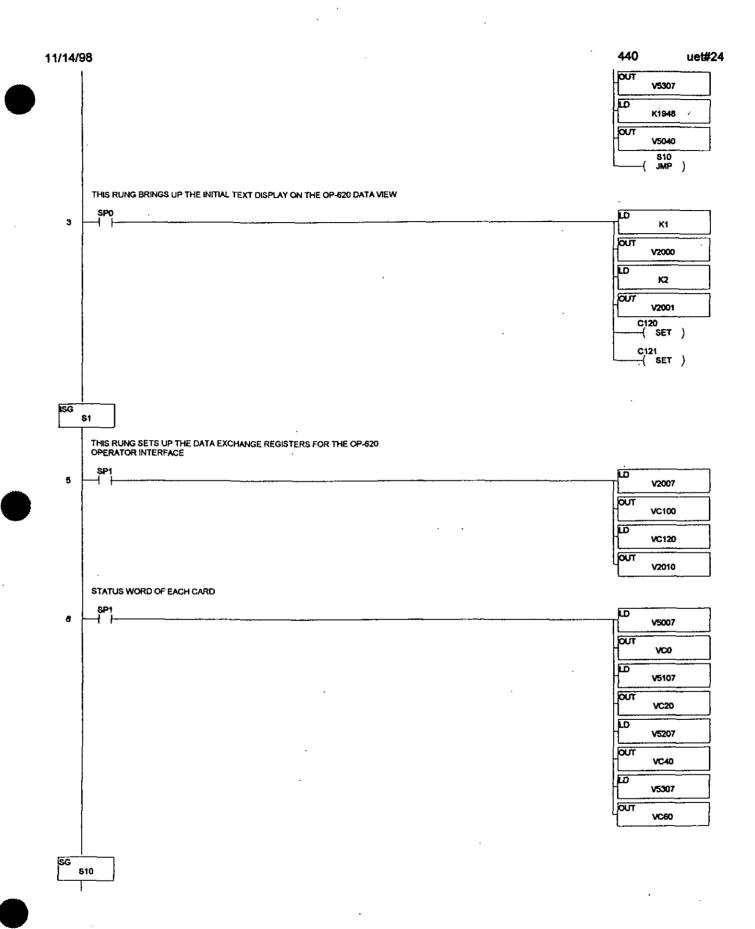
uet#24

uet#24

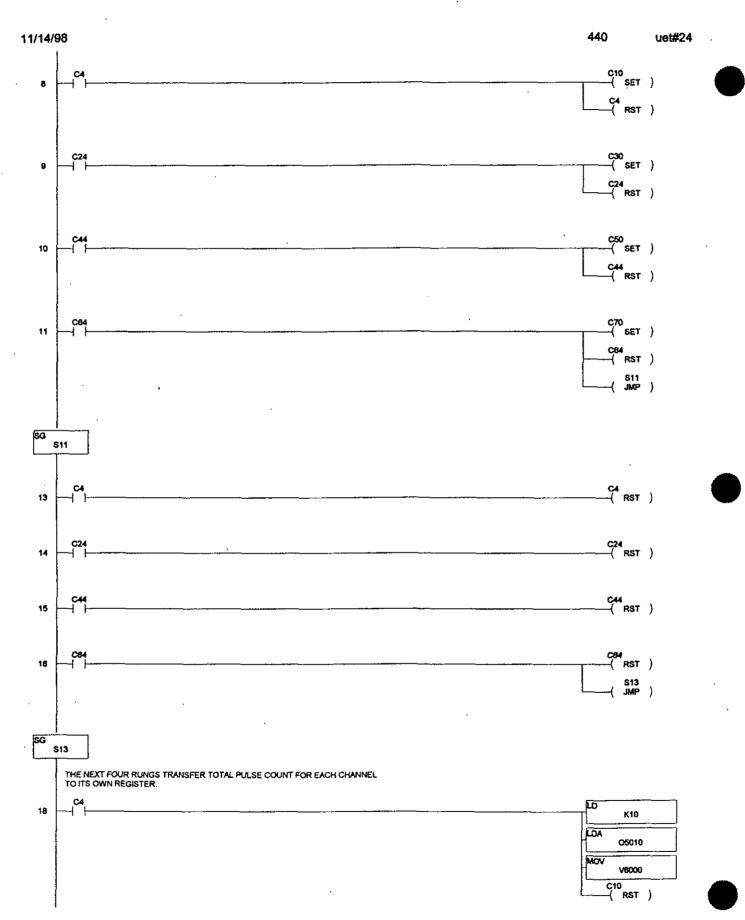
PROGRAM FOR UET
PROGRAM BY KEN MATHIS 11/14/98

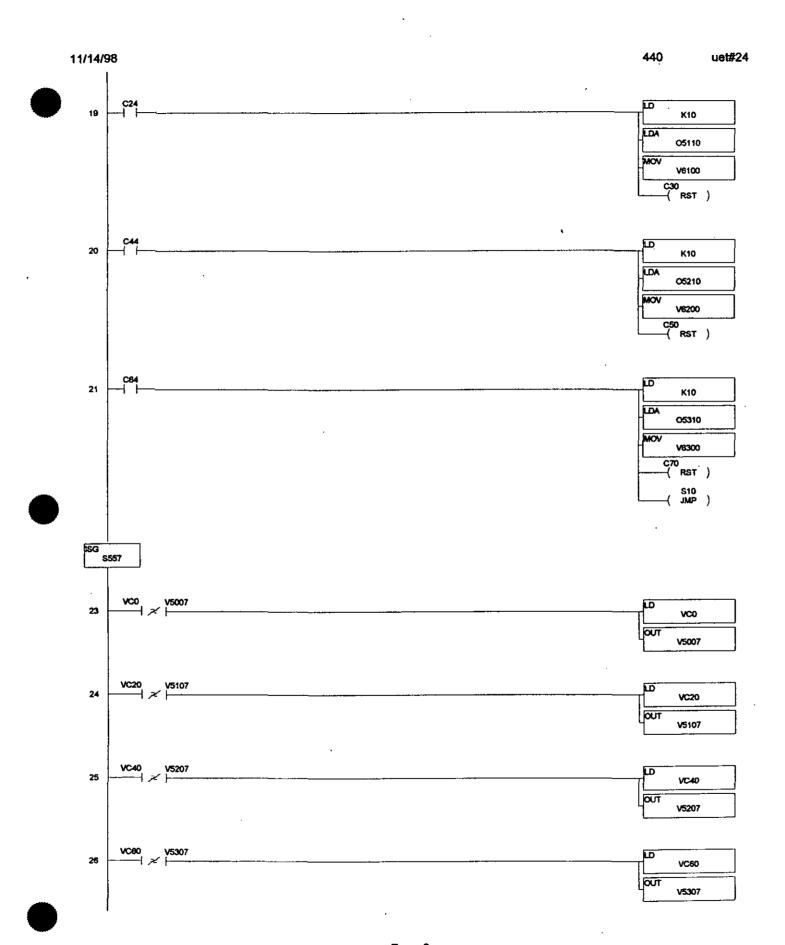
11/14/98 440 uet#24 THIS RUNG IS REQUIRED TO CONFIGURE THE FOUR HIGH SPEED COUNTER CARDS. 2 K5000 OUT V7350 LO K8 OUT V7351 Ю K5100 OUT V7353 В K8 OUT V7354 9 K5200 OUT V7356 LD OUT V7357 K5300 V7361 Б K8 **OUT** V7362 ΙĎ K100 OUT V5042 OUT OUT V5056 LD K102 ΟÜΤ V5043 OUT V5047 OUT V5053 OUT V5057 Ш OUT V5007 OUT V5107 OUT

V5207



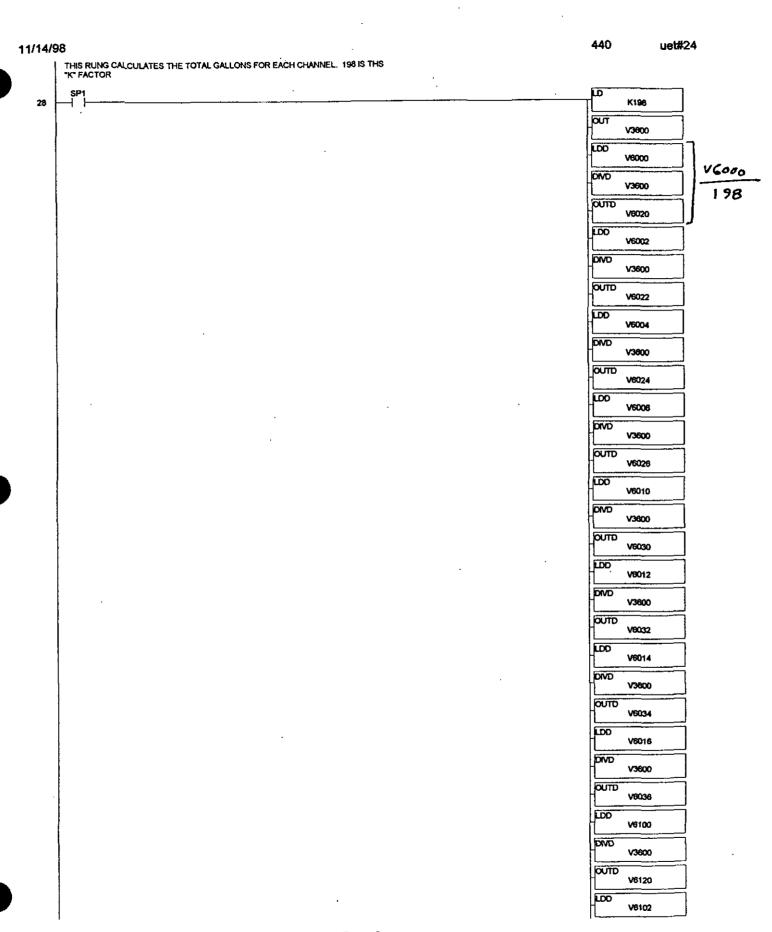
Page 4





Page 6





uet#24

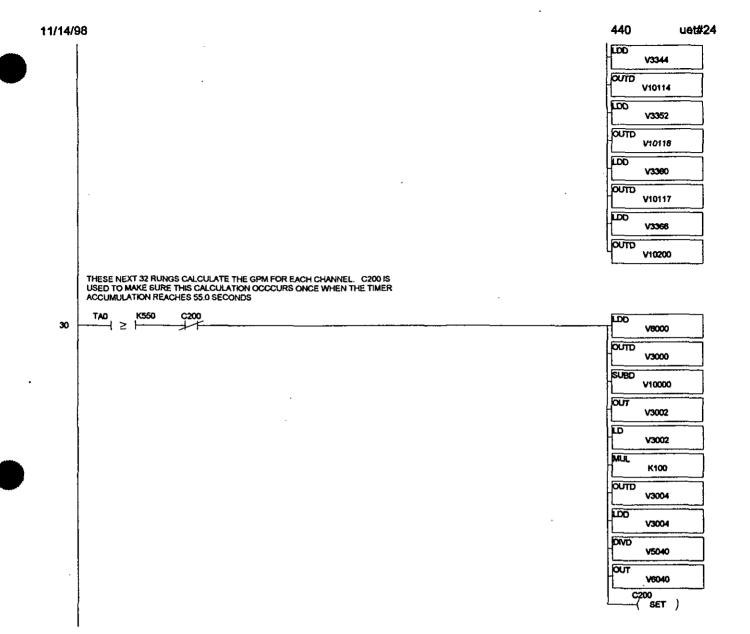
440

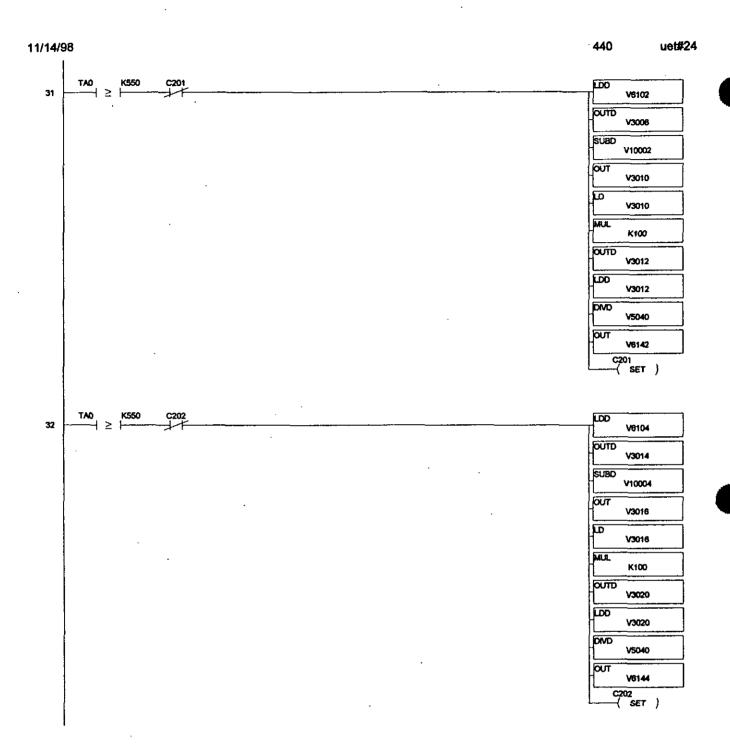
440	WO GF
OUTD	
1	V6226
100	
roo	V6210
DIVD	
	V3600
OUTD	
1	V6230
=	
LDD	V6212
DIVD	
	V3600
OUTD	
	V6232
LDD	
1	V6214
<u></u>	
DND	,,,,,,,,
L	V3600
OUTD	
1	V6234
=	
iroo	V6216
<u></u>	
DIVD	
l	V3600
στυο	
1	V6236
LDD	
	V6300
DIVD	
1	V3600
<u></u>	
OUTD	V6320
ססט	
	V6302
DIVD	
1	V3600
OUTD	
W.D	V6322
roo	V6304
Ł	70307
DIVD	
1	V3600
Simo.	
OUTO	V6324
<u></u>	
LDO	\maxx
L	V8308
DIVD	
1	V3600
COUTD	
TO ID	V8326
<u></u>	
LDD	
[	V6310
DIVD	
1	V3600
OULD	V6330
	¥0330
LDD	
1	V6312
D05	
DIVID	V3600
<u></u>	
OUTD	
٦.	V6332
L	

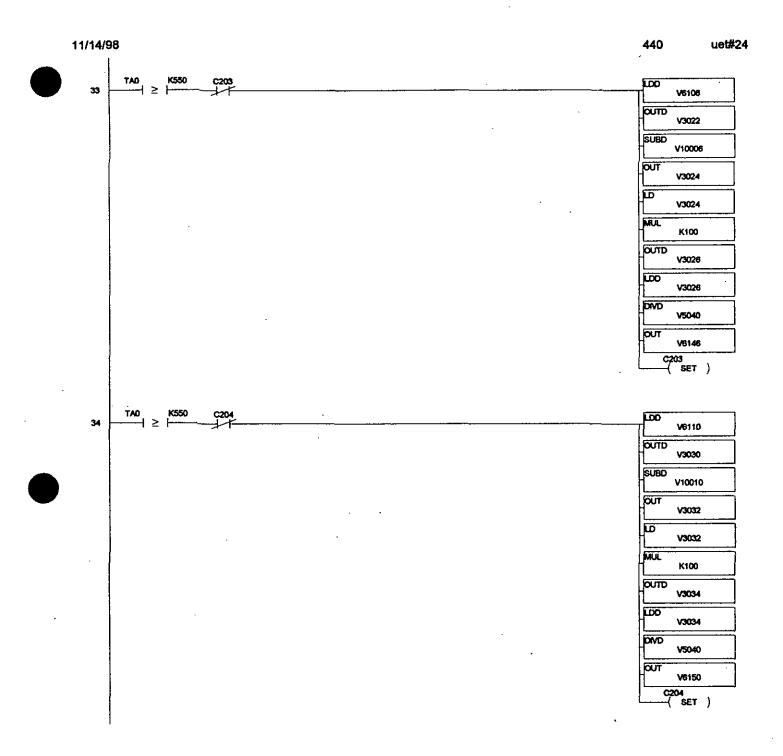
440		uet#2
LDD	V6314	
DND	V3800	
Ουτο	V6334	
LOO	V6316	
OVD	V3600	
סדטס	V6336	

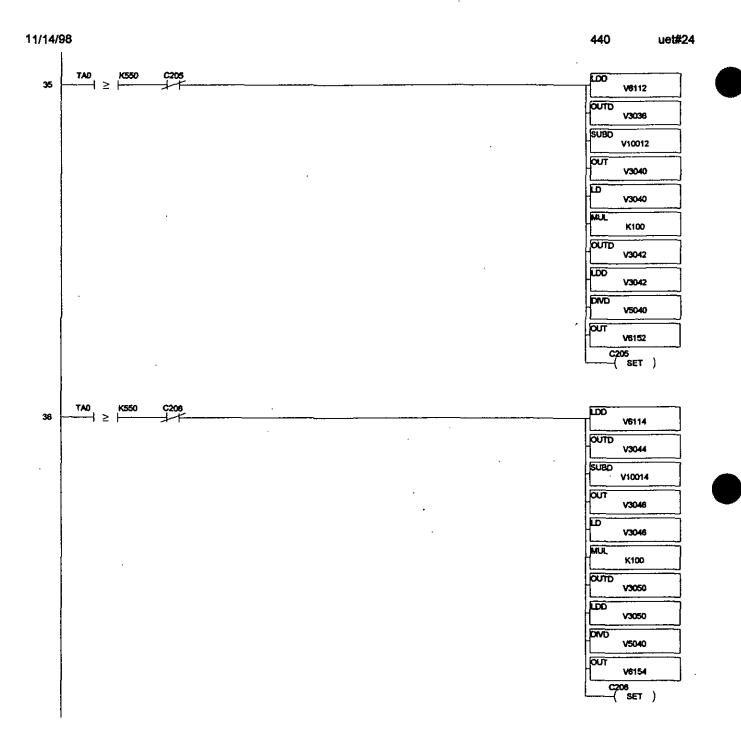
THIS RUNG CLEARS THE STATUS BITS C200 THRU C220 WHEN THE TIMER ACCUMULATION IS GREATER THAN 10.0 SECONDS. IT ALSO MOVES THE LAST TOTAL BITS COUNT TO A REGISTER: GPM=CURRENT BITS COUNT - LAST BITS COUNT(OVER A TIME OF ONE MIN) TAO < K100 ко VC200 OUT VC220 LDD V3000 OUTD V10000 LDD V3006 OUTD V10002 LDD OUTD V10004 LDD V3022 OUTD V10008 V3030 OUTD V10010 LDD V3036 OUTD V10012 <u>iidd</u> V3044 OUTD V10014 LDD V3052 OUTD V10016 LDD V3060 OUTD V10020 LDD V3068 OUTO V10022 LDD V3074 OUTD V10024 LDD V3100 OUTD V10026 LOO V3106

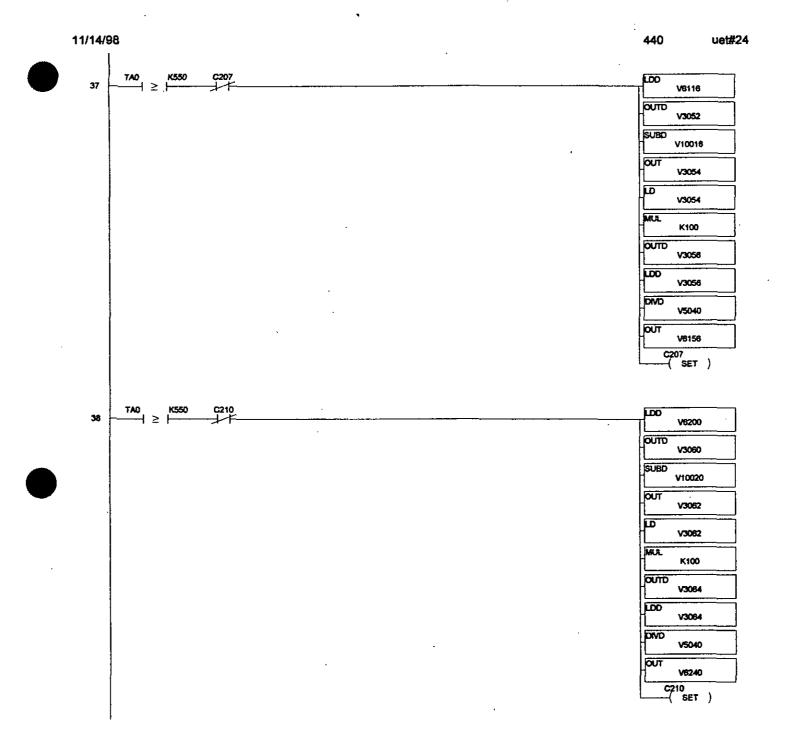
1	V10030
LDO	V3114
ouro	V10032
LDO	V3122
OUTD	V10034
LDD	V3130
OUTD	V10036
LDO	V3136
OUTD	V10040
LDD	V3144
OUTD	V10042
OUTD	V3152
шо	V10044
OUTD	V3180
LOO	V10046
OUTD	V3166
<u></u>	V10050
LDD	V10050 V3174
<u></u>	
LDD	V3174
LDD OUTD OUTD	V3174 V10052 V3300 V10100
OCID OCID	V3174 V10052 V3300 V10100 V3308
LDD LDD LDD	V3174 V10052 V3300 V10100 V3308 V10102
	V3174 V10052 V3300 V10100 V3308 V10102 V3314
	V3174 V10052 V3300 V10100 V3308 V10102 V3314 V10104
	V3174 V10052 V3300 V10100 V3308 V10102 V3314 V10104 V3322
	V3174 V10052 V3300 V10100 V3308 V10102 V3314 V10104 V3322 V10108
	V3174 V10052 V3300 V10100 V3308 V10102 V3314 V10104 V3322 V10108 V3330
	V3174 V10052 V3300 V10100 V3308 V10102 V3314 V10104 V3322 V10108
	V3174 V10052 V3300 V10100 V3308 V10102 V3314 V10104 V3322 V10108 V3330 V10110

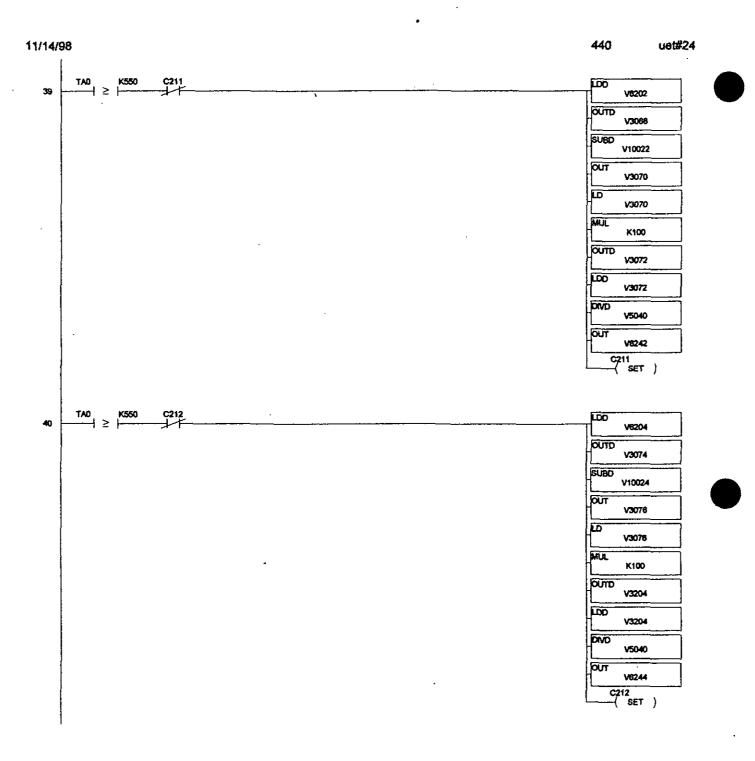


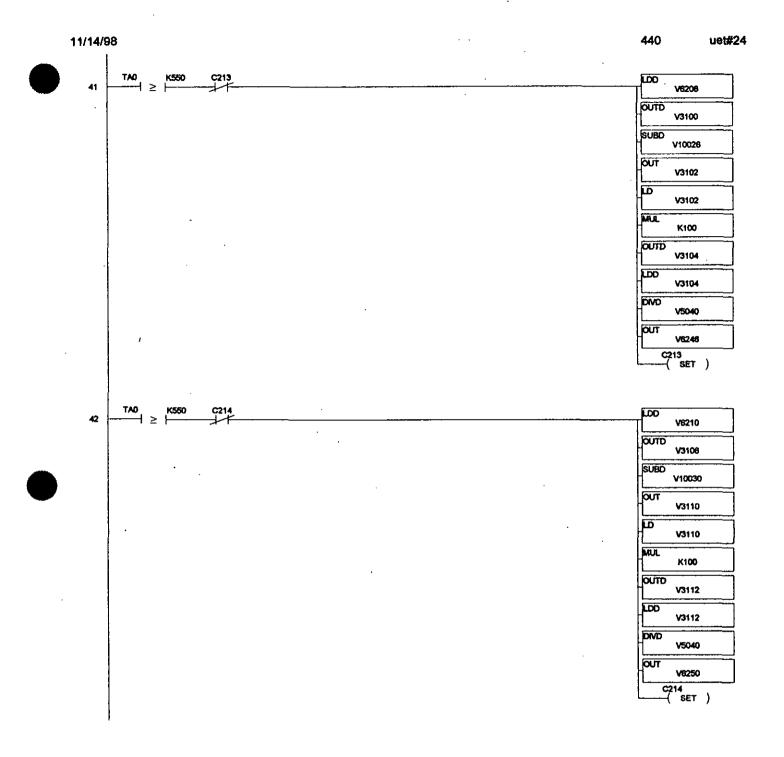


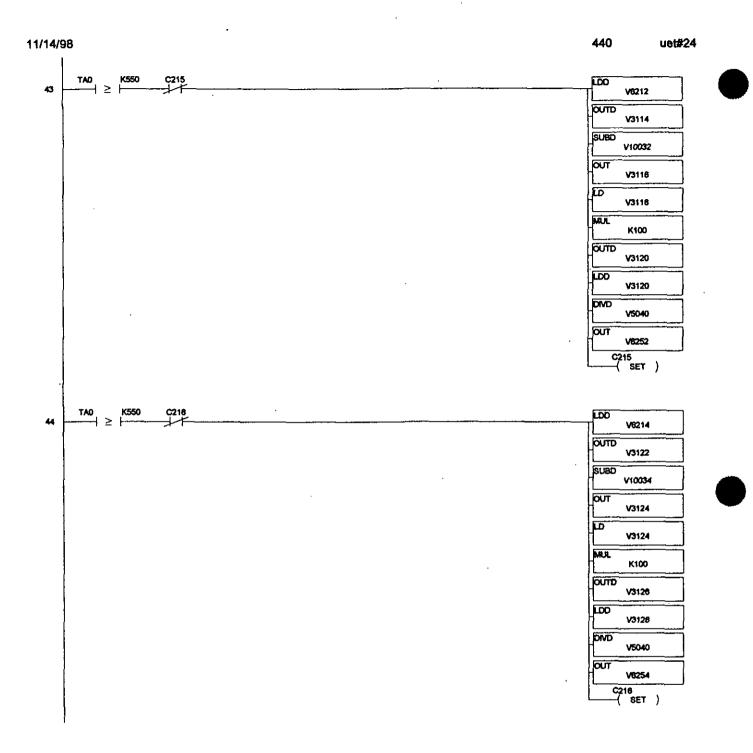


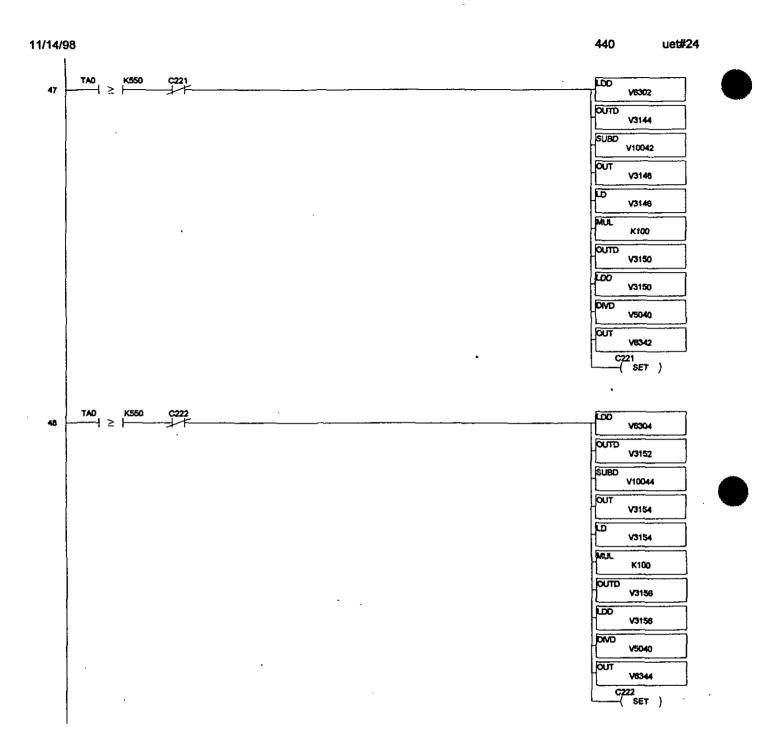




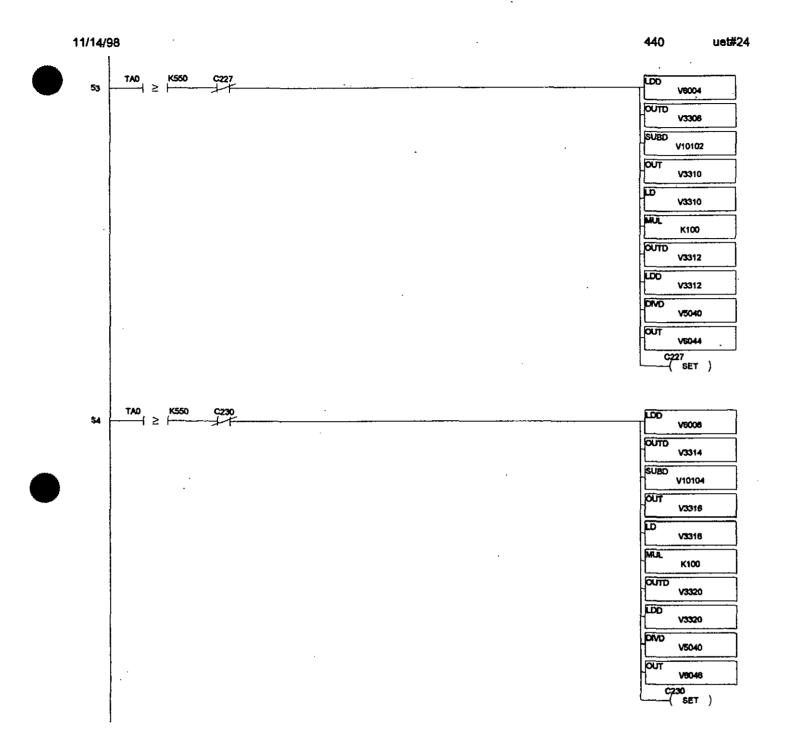


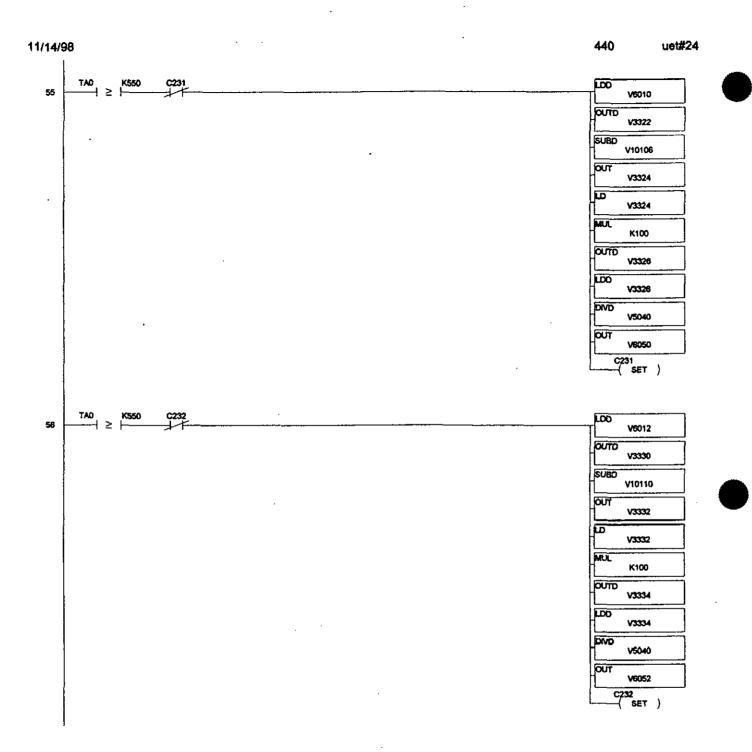


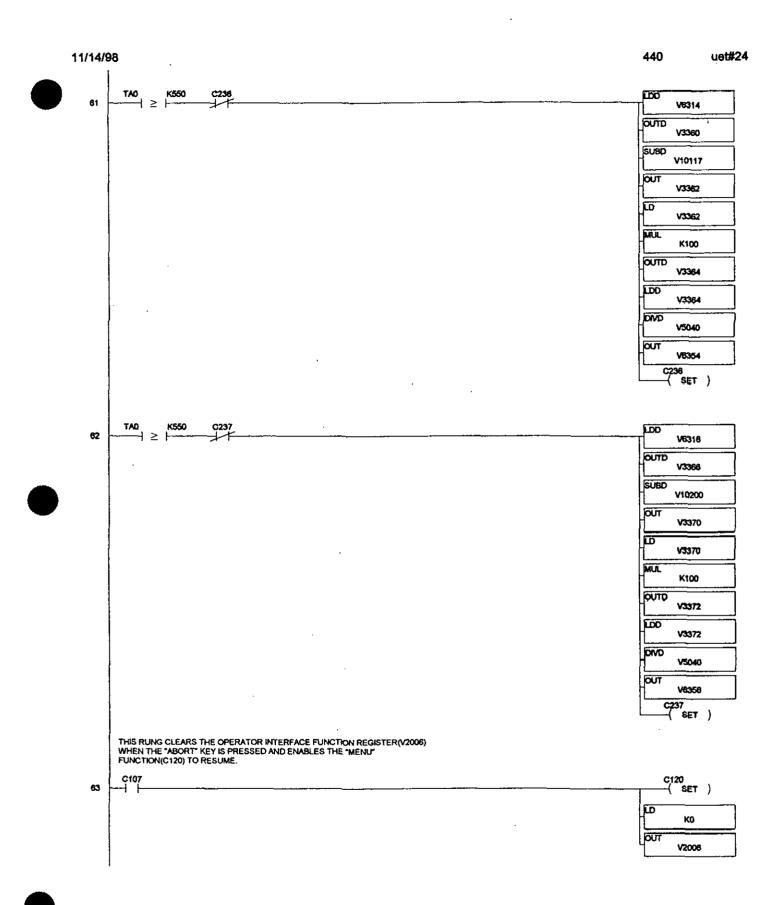


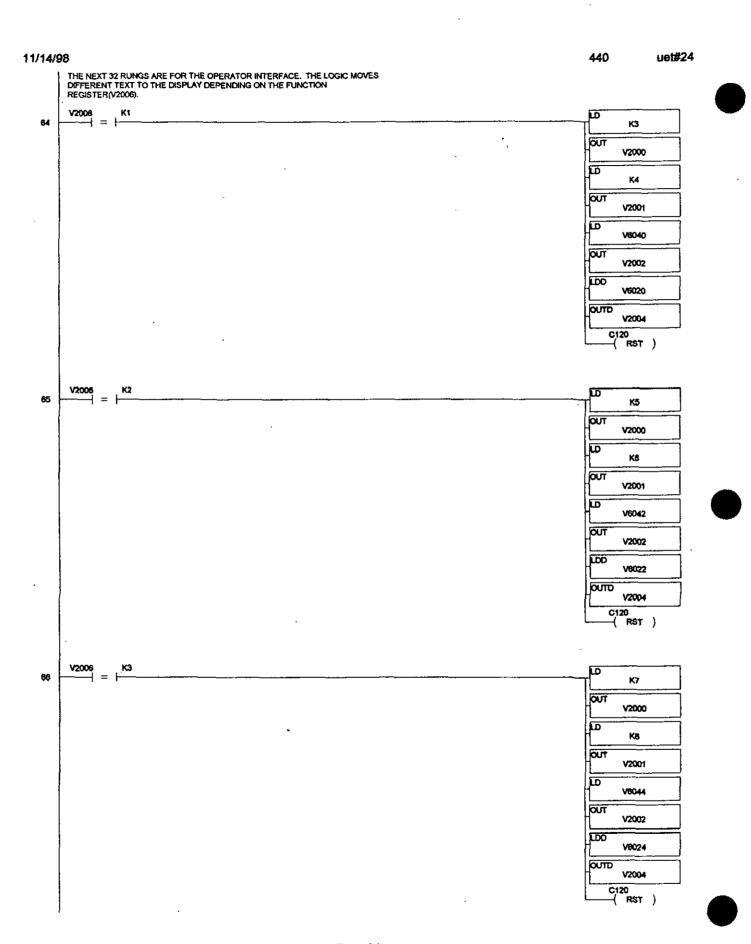


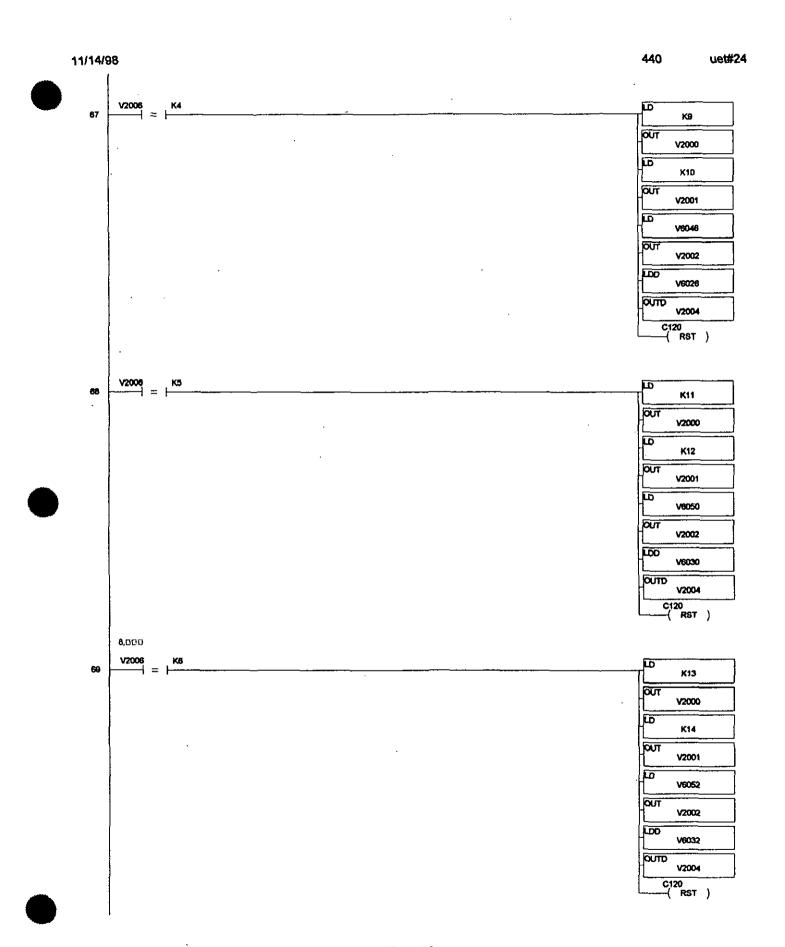
11/14/98 440 uet#24 TA0 K550 C223 V6308 OUTD V3160 SUBD V10048 V3162 LO V3162 MUL K100 OUTD V3164 LDD. V3164 ONO V5040 C223 ( SET ) TA0 K550 · C224 LDD 50 V6310 V3166 V10050 V3170 V3170 MUL K100 OUTD V3172 LDD V3172 DIVD V5040 V6350 C224 ( SET )

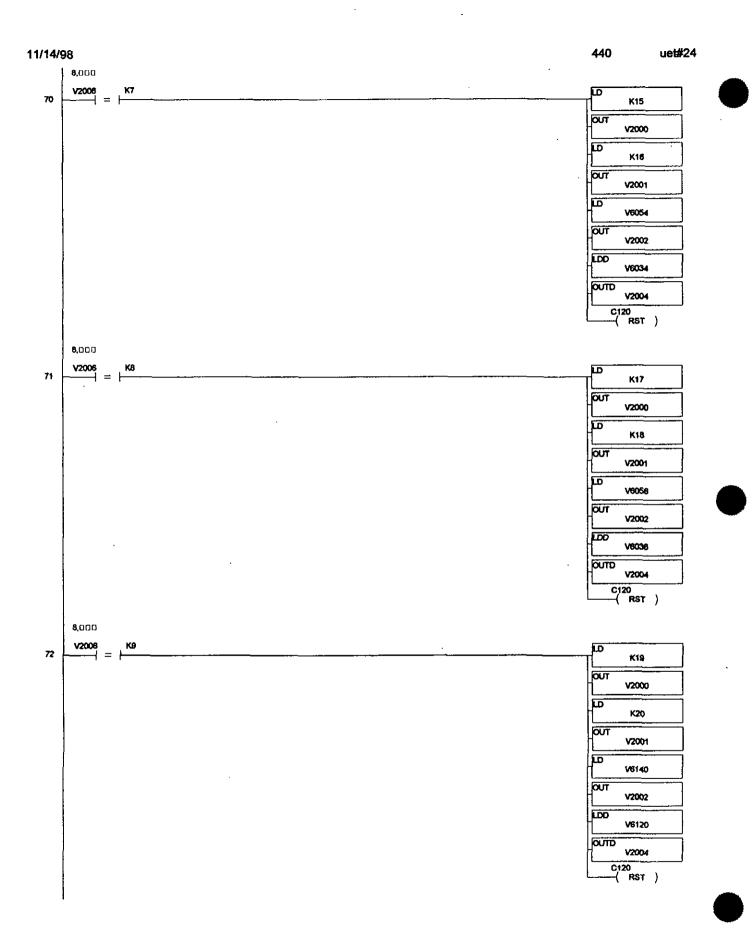


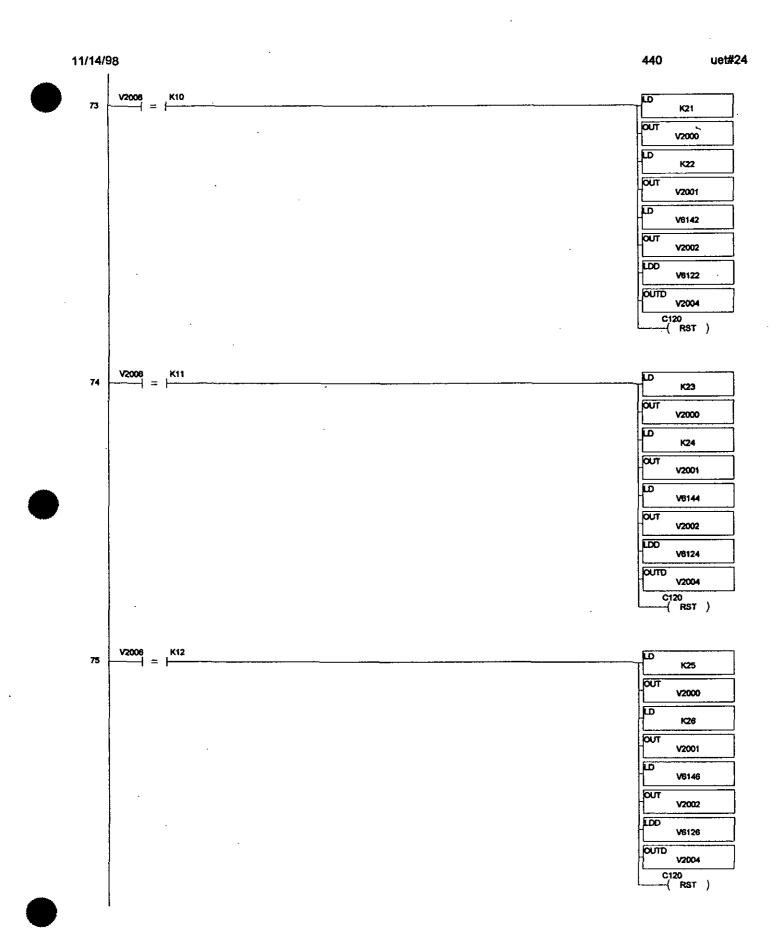


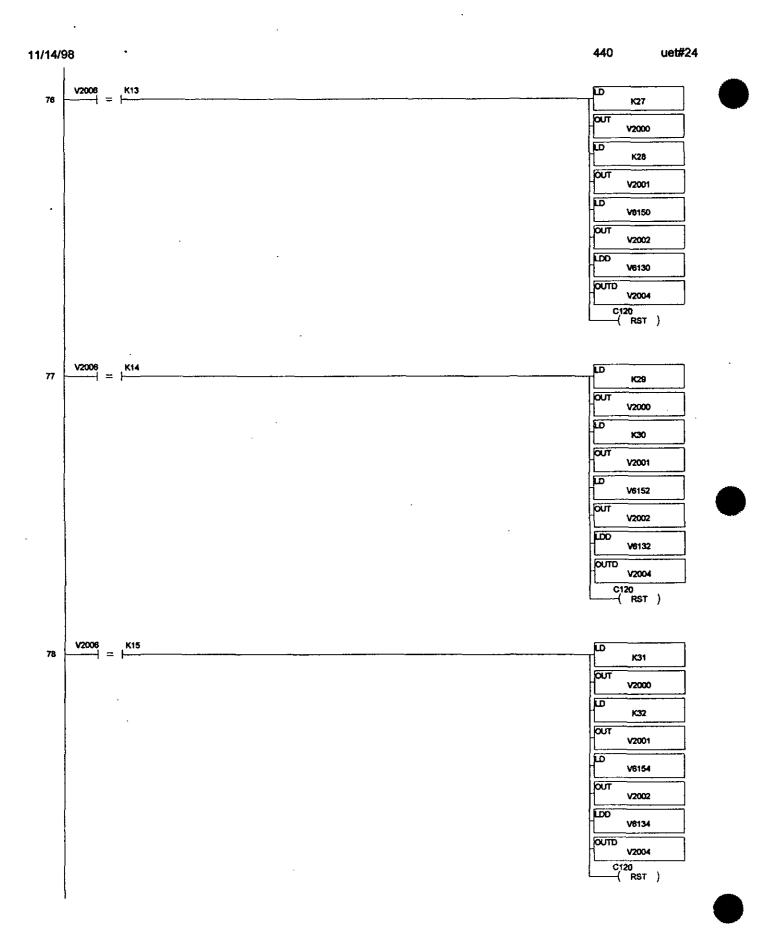


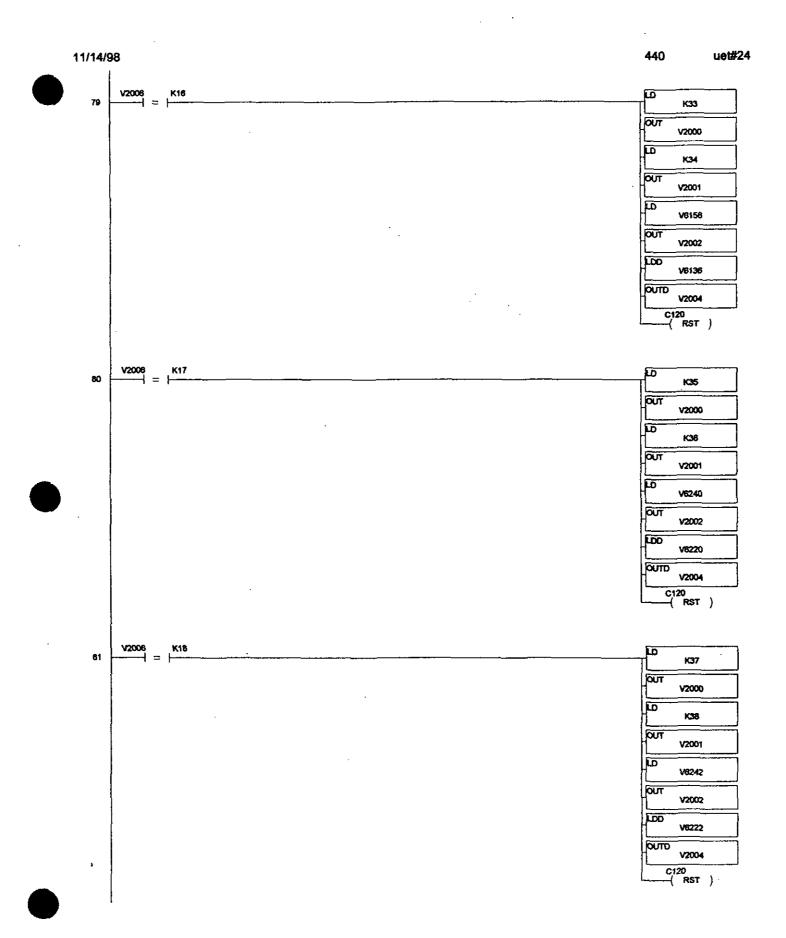


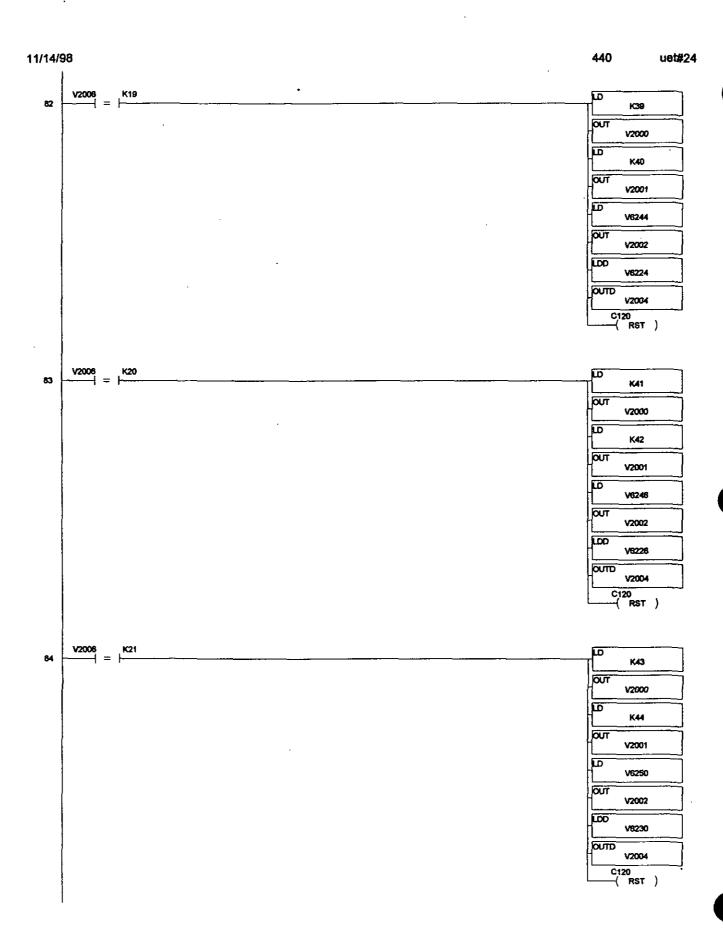


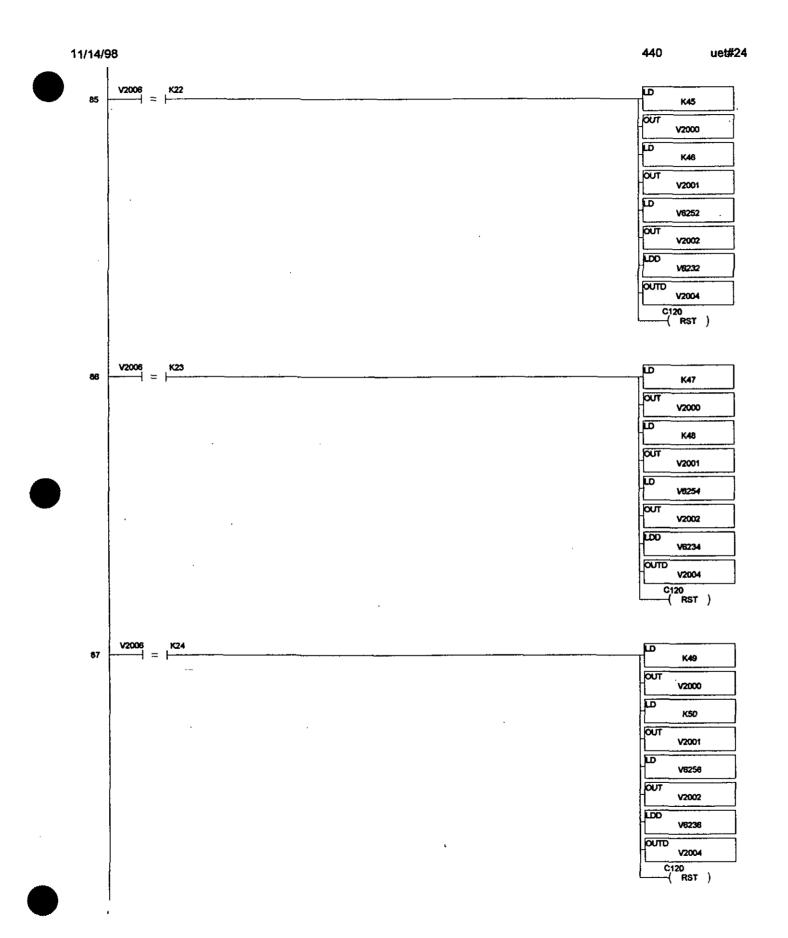


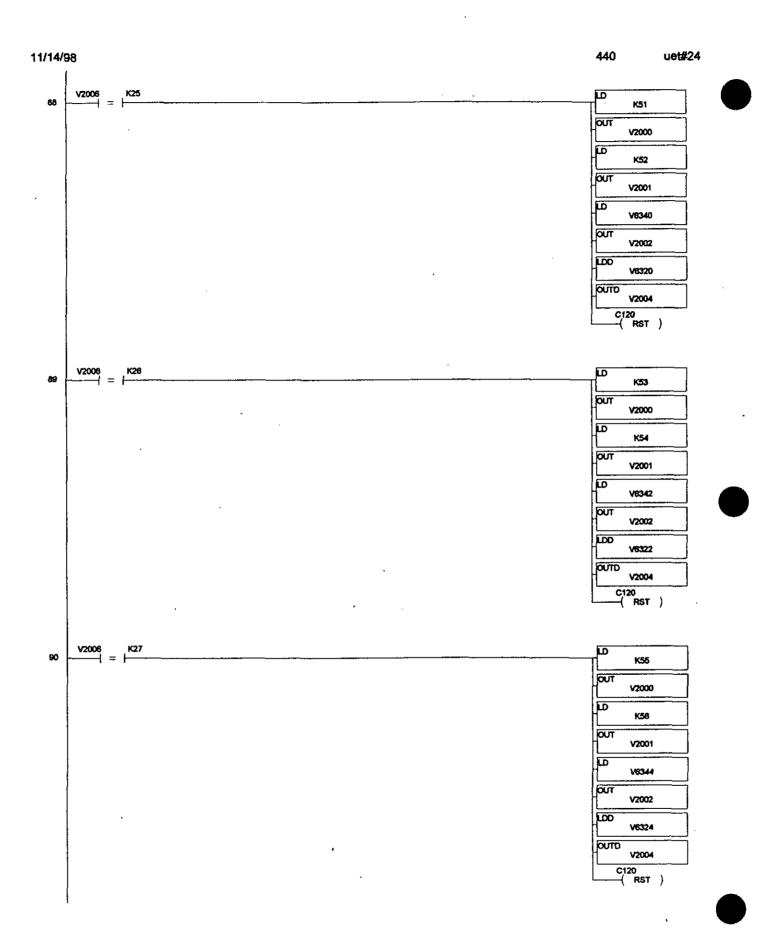


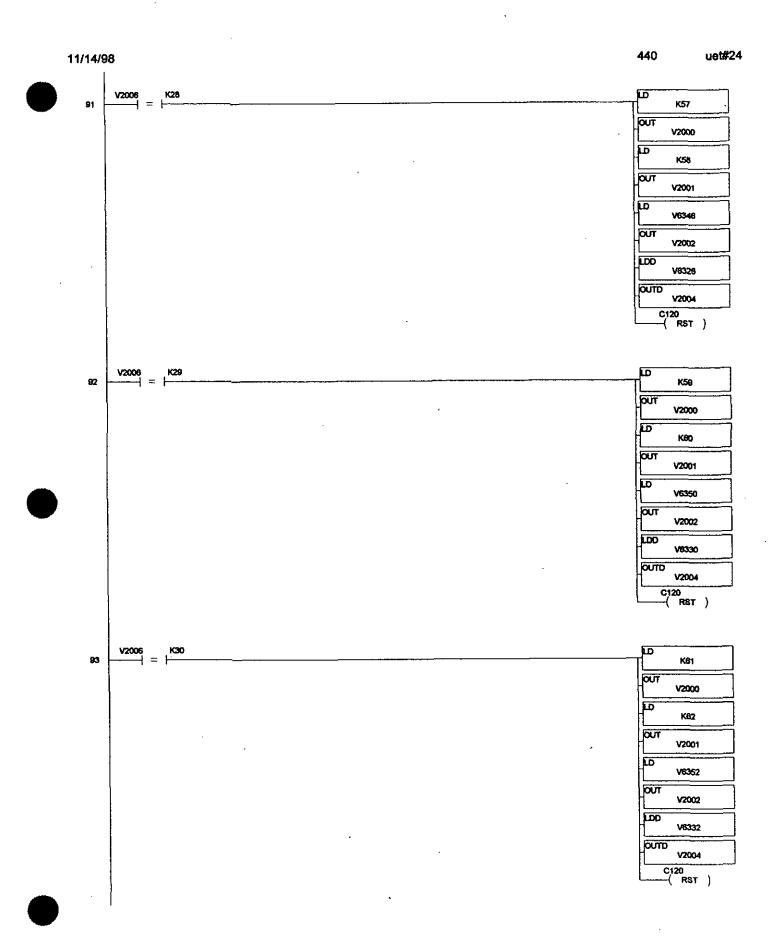


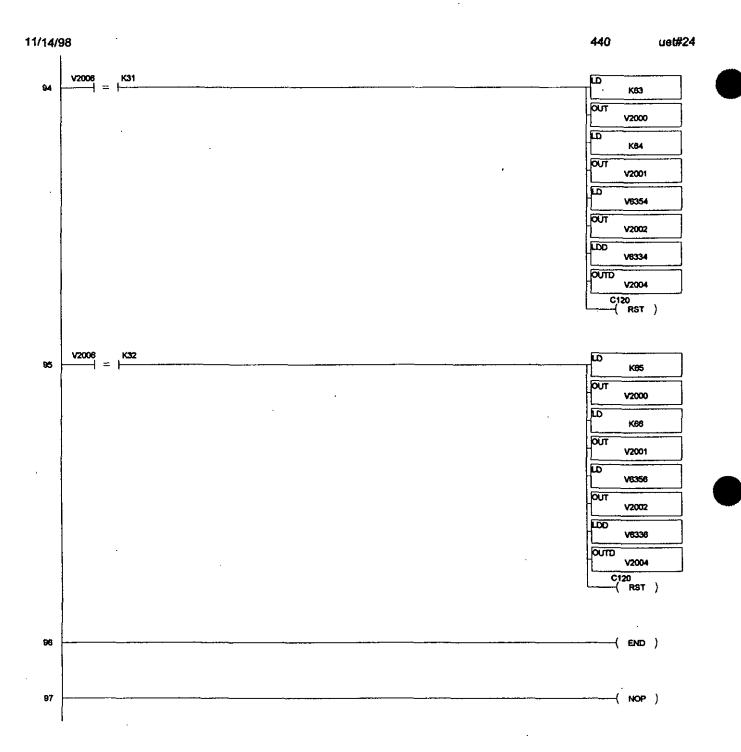












SUBMITTAL TRANSMI	TTA	AL FORM		,		No. <u>26</u>
PROJECT:	Sal Lynn/Industrial Transformers Site Remedial Action					
TROJECT.		Sol Lynn/Industrial Transformers Site Remedial Action Harris County, Texas			Action	
AGENCY:		TNRCC				
CONTRACT NO.		8 800501 00				
DATE OF ISSUANCE:		nuary 14, 1999		******		
CONTRACTOR:		RS Infrastructure & Er	vironmen	t Inc		
ENGINEER:		adian International, LL		., 1110.		
Erroma		udian international, BE				<del></del>
ROUTING		SENT (Date, Sign	ature)	F	Recei	ved (Date, Signature)
Contractor to Engineer		1/15/99	2			
Engineer to Contractor		1 / /				
Contractor to Agency	•	· V	•			
SUBMITTAL					•	
Item: Progress Photos						
Specification Section:			Equipme	ent Desi	gnati	on:
01390-	l, 1.3	3.A				
Drawing No.: Local			Location	ation:		
Other: Nu			Number	of Copi	es:	1
Previous Submittal Date:			Revision	ı Numbe	er:	
CONTRACTOR'S VERI This submittal meets all t XX Without Exception Remarks:						
Itelliains.						
By:Contractor (Authorized Signature)				-	Jan Dat	uary 15, 1999 te
V	8			•	1	· <del>·</del>
SUBMITTAL REVIEW	ACT	TON	<del> </del>	<del></del>		
Number OF Copies Returned No Exceptions Taken Revise and Resubmit						
Exceptions as Noted Rejected						
Remarks:						
						•

Date

Distribution:

By:

Engineer (Authorized Signature)

Contractor Engineer TNRCC

SUDMITTAL TRANSMITTAL FORM				
PROJECT:	Sol Lynn/Industrial Trans	sformers Site	Remedial Action	
TROVEGT.	Harris County, Texas			
AGENCY:	TNRCC			
CONTRACT NO.	98 800501 00			
DATE OF ISSUANCE:	January 14, 1999	<u> </u>		·
CONTRACTOR:	WRS Infrastructure & En	vironment, I	 nc.	
ENGINEER:	Radian International, LLG			<u>-</u>
·			· <u>-</u> .	<del></del> -
ROUTING	SENT (Date, Sign	ature)	Received (Date	e, Signature)
Contractor to Engineer	1/15/99	2		
Engineer to Contractor				
Contractor to Agency	- V			
SUBMITTAL				
Item: Progress Photos				
Specification Section:		Equipment	Designation:	-
01390-1	, 1.3.A			
Drawing No.:	• .	Location:		
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Previous Submittal Date:		Revision N	umber:	
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CONTRACTOR'S VERI	FICATION			
This submittal meets all th		ntract Docu	ments	
XX Without Exception	Except for the Fo			
Remarks:		<u> </u>	<del></del>	
By: Jelle			January 15,	1999
Contractor (Authorized	Signature)		Date	
SUBMITTAL REVIEW A	CTION			-
Number OF Copies R	eturned No Excep	otions Taken	Revise	and Resubmit
Exceptions as Noted Rejected				
Remarks:				
				·
By:				
Engineer (Authorized Si	gnature)	_	Date	· ——

Distribution:

Contractor

Engineer TNRCC

Date

Distribution:

By:

Remarks:

Contractor

Engineer (Authorized Signature)

Engineer

TNRCC

professe of almost

NO. 123669

NON-HAZARDOUS SPECIAL WASTE MANIFEST of thememore as required by a state contract

GENER	ATOR
GENERATOR NAME WKS ITE INC.	GENERATING LOCATION THE LYNN THE TOTAL
ADDRESS 14 8 E. North Belf # 170	ADDRESS 872) DAVID 54
Housen, Tr. 7703	Houston, Tr. 77054
PHONE NO. 7/3 7998034	STATE GENERATOR ID NUMBER 7/07/
T.N.R.C.C DESCRIPTION	DORLE
Nuc Continued a secret	O O O O O O O O O O O O O O O O O O O
BFI WASTE CODE	179199 THRUX
	OF WASTE P-POUNCS Y-YARDS O-OTHER
BFI WASTE CODE	
DESCRIPTION	OF WASTE
	A STATE OF THE STA
BFI WASTE CODE	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is been properly described, classified and packaged; and is in proper condition for trans of a previously restricted hazardous waste subject to the Land Disposal Restriction requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 certified in the condition of t	ctions, I certify and warrant that the waste has been treated in accordance with
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME SIGNATURE	SHEPMENT DATE
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME SIGNATURE	SHIPMENT DATE
	SHIPMENT DATE
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME SIGNATURE TRANSP	PHONE NO. 730-120
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME SIGNATURE TRANSP TRUCK NO	PHONE NO. 130-120
TRANSPORTER NAME ADDRESS 1717 W. 13 54.	PHONE NO. 730-1-20  DRIVER NAME (PRINT) 150-20  VEHICLE LICENSE NO STATE Z 2777 77.
TRANSP  TRANSPORTER NAME TO CONTROL TO THE SIGNATURE  TRANSP  TRANSPORTER NAME TO CONTROL TO THE SIGNATURE  TRANSP  TRANSPORTER NAME TO CONTROL TO THE SIGNATURE  TRANSP  TR	PHONE NO. 730-120  DRIVER NAME (PRINT) 777  VEHICLE LICENSE NO/STATE 777  STATE TRANSPORTER ID NO. 977-5  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED
TRANSP  TRANSPORTER NAME ACCORDANCE SIGNATURE  TRANSPORTER SIGNATURE SIGNATURE SIGNATURE  TRANSPORTER SIGNATURE SIGNATURE SIGNATURE SIGNATURE  TRANSPORTER SIGNATURE SIGNATUR	PHONE NO. 730-120  DRIVER NAME (PRINT) 770  VEHICLE LICENSE NO STATE 777  STATE TRANSPORTER ID NO. 770  1 HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED WITHOUT INCIDENT. TO THE DESTINATION LISTED BELOW.
TRANSP  TRANSPORTER NAME TO CONTROL TO THE SIGNATURE  TRANSP  TRANSPORTER NAME TO CONTROL TO THE SIGNATURE  TRANSP  TRANSPORTER NAME TO CONTROL TO THE SIGNATURE  TRANSP  TR	PHONE NO. 730-120  DRIVER NAME (PRINT) 777  VEHICLE LICENSE NO/STATE 777  STATE TRANSPORTER ID NO. 977-5  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED
TRANSPORTER NAME TO COMPANY TO THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.	PHONE NO.  PHONE NO.  PHONE NO.  PHONE NO.  PHONE NO.  PRIVER NAME (PRINT)  VEHICLE LICENSE NO STATE FROM THE ABOVE NAMED MATERIAL WAS DELIVERED WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.  DRIVER SIGNATURE  ATION
TRANSPORTER NAME TO COMPANY TO THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.  SIGNATURE  TRANSPORTER NAME TO COMPANY TO THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.  SHIPMENT DATE	PHONE NO
TRANSPORTER NAME TO CONTROL TO THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.  DRIVER SIGNATURE  SIGNATURE  TRANSPORTER NAME TO CONTROL TO THE SIGNATURE  TRANSPORTER NAME TO CONTROL TO THE SIGNATURE  SIGNATURE  TRANSPORTER NAME TO CONTROL TO THE SIGNATURE  SHIPMENT DATE  DESTIN	PHONE NO
TRANSPORTER NAME AND ALTHORIZED AGENT NAME  TRANSPORTER NAME AND ALTHORIZED AGENT NAME  TRANSPORTER NAME AND ALTHORIZED AGENT NAME  ADDRESS ATT W. 3 4.  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.  SHIPMENT DATE  DESTIN	ORTER  PHONE NO

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### **TE**AS



NO. 123658

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENER	ATOR				
**	GENERATING LOCATION SCY LYVV MA TRUSENCE PR				
ADDRESS 1438E MARTH RELT # 190	ADDRESS HOUSTON TO THE				
Houston IX 77032	87214 < NAVIN ST				
PHONE 171-3 7998034	STATE GENERATOR ID NUMBER 81571				
T.N.R.C.C. DESCRIPTION (	OF WASTE QUANTITY UNITS				
N. W. Correspondence To	Son + Mise Laires A A & 1 7 CORTON CONTROL BANG				
BFI WASTE CODE	179195 TIRLOX				
T.N.R.C.C. DESCRIPTION (	OF WASTE				
	OOTHER				
BFI WASTE CODE					
T.N.R.C.C. DESCRIPTION	DE WASTE ::				
789-					
BFI WASTE CODE					
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME  SIGNATURE	SHIPMENT DATE				
TRANSP	ORTER				
TRUCK NO.	PHONE NO. 430 - 1207				
TRANSPORTER NAME COMMENT & SURREMARKED	DRIVER NAME (PRINT)				
ADDRESS 1717 W 13 5 7	VEHICLE LICENSE NO/STATE 2/3/				
Deer Fack Tx	STATE TRANSPORTER ID NO				
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE	I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED				
GENERATOR SITE LISTED ABOVE.	WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.				
111777	10974				
DRIVER SIGNATURE SHIPMENT DATE	ORIVER SIGNATURE DELIVERY DATE				
DESTINATION					
SITE NAME PET	PHONE NO. 712-67437				
ADDRESS MALE AND THE REAL PROPERTY OF THE PARTY OF THE PA	USEA TO TELE				
EBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED AND TO	O THE BEST OF MY KNOWLEDGE THE FOREGOING IS TRUE AND ACCURATE.				
<del>-</del>					
NAME OF AUTHORIZED AGENT SIGNATURE					

TEAS

No. 123660

NAME OF AUTHORIZED AGENT

NON-HAZARDOUS SPECIAL W	ASTE MANIFEST
on behalf of The THECC or Required !	by a state Contract
GENERATOR NAME WRS TIE TO	
	GENERATING LOCATION SOL LYNA THO THAN PETAE
air v	ADDRESS 8721 # 5 David ST
Houston TX 77032	Houston TX 77054
	911-51
• •	STATE GENERATOR ID NUMBER
T.N.R.C.C. DESCRIPTION	
Now Controlled Controlled	CONTON BEAG
BFI WASTE CODE	тпих
T.N.R.C.C. DESCRIPTION	Y-YAPOS
	O COTHER
BFI WASTE CODE	
NRCC WEST DESCRIPTION	OF WASTE
BFI WASTE CODE	
GENERATOR'S CERTIFICATION: I hereby certify that the above negged material is	not a hazardous waste as defined by 40 CFR Part 261 or any applicable state ta
been properly described, classified and packaged, and is in proper condition for trans of a previously restricted hazardous waste subject to the Land Disposal Rest	spontation according to applicable regulations; AND, If the waste is a treatment resizus rictions, I cartify and warrant that the waste has been treated in accordance with the
requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 4	10 CFR Part 261.
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME SIGNATURE	SHIPMENT DATE
TRANSF	
TRUCK NO. 2	PHONE NO 1200
	<b>T</b>
TRANSPORTER NAME GOINE Fruitumenta	DRIVER NAME (PRINT)
ADDRESS / 7/7 4 / 3 57	VEHICLE LICENSE NO/STATE 50/6/13
The Pert Th	STATE TRANSPORTER ID NO. 407 )
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE	I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERE
GENERATOR SITE LISTED ABOVE.	WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.
DRIVER SIGNATURE SHIPMENT DATE	DRIVER SIGNATURE DELIVERY DATE
	ATION
SITE NAME BFZ	PHONE NO. 7 / 3 - 6 743 / 2 /
ADDRESS 11013 CID BEAUMONT HOU	Houston TI 77076
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED AND	TO THE BEST OF MY KNOWLEDGE THE FOREGOING IS TRUE AND ACCURATE.
•	

SIGNATURE

SIGN CO IN THE CORSE AND SCORE OF CONTRACTURE HERFORMAYICE OF SERVICE



# TERAS

NO. 123656

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENER OF THE THRU AS REDUIRED BY	ATOR
	GENERATING LOCATION SAL LYNN IN TRANSFORMER
ADDRESS WAYE ADDITION # 190	ADDRESS FRANK S. DAVID ST
HOUSTON, TX 770==	HOUSTON, TX. 77054
PHONE NO. 712 7448034	STATE GENERATOR ID NUMBER 8 1091
T.N.R.C.C. DESCRIPTION OF	DORUM DORUM
BFI WASTE CODE	B-BAG T-TRUCK
T.N.R.C.C. DESCRIPTION (	PPOLINGS
	V-YAROS O-OTHER
BFI WASTE CODE	
T.N.R.C.C. DESCRIPTION	OF WASTE
A CONTRACTOR OF THE CONTRACTOR	
BFI WASTE CODE	
been properly described, classified and packaged, and is in proper condition for trans-	not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has portation according to applicable regulations; AND, if the waste is a treatment residue ctions, I certify and warrant that the waste has been treated in accordance with the DCFR Part 261.
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME SIGNATURE	SHIPMENT DATE
TRANSP	ORTER
TRUCK NO. 39 7 Taile: 3/6	PHONE NO. 221 130 1200
TRANSPORTER NAME GATHER ENVIRONMENTAL	DRIVER NAME (PRINT) Lacity Tath
ADDRESS 1717 W 13 74 57.	VEHICLE LICENSE NO/STATE R22 525
Deei Park	STATE TRANSPORTER ID NO.
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.	
Frang 10th 79 46 98	Tay Tath 092698
DESTIN	ORIVER SIGNATURE DELIVERY DATE  ATION
<u> </u>	ATION
SITE NAME 12 - 1	PHONE NO.
ADDRESS HE THE COLD TO THE MET AND THE COLD	War Carlot
I HEHEBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED AND TO	O THE BEST OF MY KNOWLEDGE THE FOREGOING IS TRUE AND ACCURATE.
·	
NAME OF AUTHORIZED AGENT SIGNATURE	



# TEKAS

NO. 123654

NON-HAZARDOUS SPECIAL WASTE MANIFEST

ON BEHALF OF THE TURC HE REQUIRED GENER	ATOR
GENERATOR NAME WRS Z+F INC	GENERATING LOCATIONS L LYVV IND THINKS A
ADDRESS 1438 F NO.TH 3ELT = 190	
4015 N TX 77156	HOWEREN TX 77054
PHONE NO. 7/3 7798034	STATE GENERATOR ID NUMBER 81091
TN.R.C.C. DESCRIPTION	OF WASTE CHANTITY UNITS
WAS WITH WATER GUERO	TESCH + MICE IN SQUED ST V CONTON
BFI WASTE CODE	B-BAG T-TRUCK
T.N.R.C.C. DESCRIPTION	OF WASTE
	Y-YARDS O-OTHER
BFI WASTE CODE	
T.N.R.C.C. DESCRIPTION	
BFI WASTE CODE	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is been properly described, classified and packaged, and is in proper condition for trans of a previously restricted hazardous waste subject to the Land Disposal Restricted requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40	ctions, I certify and warrant that the waste has been treated in accordance with
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME SIGNATURE	SHIPMENT DATE
TRANSP	
	PHONE NO. 130 1200
TRANSPORTER NAME STATE FROM MENT-	
ADDRESS 17/17 61 18 TA 2	VEHICLE LICENSE NO/STATE 227 825
Gran Park 1x	
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE	STATE TRANSPORTER ID NO
GENERATOR SITE LISTED ABOVE.	WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.
1 7 7 6 7 7 6 7 7 °C	1-701/- 372673
DRIVER SIGNATURE SHIPMENT DATE  DESTIN	ORIVER SIGNATURE DELIVERY DATE
DESTIN	ATION
SITE NAME	PHONE NO. 7 / 5 / 7 / 8 / 7 / 8 / 1
ADDRESS IN ECOLD EFRICKAT HUY H	TO THE SECOND TO THE PROPERTY OF THE PARTY O
,	
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED AND T	
,	

NO. 123655 NON-HAZARDOUS SPECIAL WASTE MANIFEST ON BEHALF OF THE TNOCK AS REDUIRED BY A RATOR NAME AURS GENERATING LOCATIONS **ADDRESS** 0-DRUM **C-CARTON** B-BAG T-TRUCK P-POUNDS **DESCRIPTION OF WASTE** Y-YARDS O-OTHER **BFI WASTE CODE** T.N.R.C.C **DESCRIPTION OF WASTE BFI WASTE CODE** Late Edition Sections -GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the equirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261. ASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME TRANSPORTER PHONE NO. DRIVER NAME (PRINT) VEHICLE LICENSE NO /STATE STATE TRANSPORTER ID NO. ABOVE NAMED MATERIAL WAS PICKED UP AT THE I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.

Ų,	E 3	ШŊ	VA.	IU	$X_i$

I HEBEBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED AND TO THE BEST OF MY KNOWLEDGE THE FOREGOING IS TRUE AND ACCURATE.

NAME OF AUTHORIZED AGENT

SIGNATURE





December 14, 1998

#### Dear Customer:

Enclosed you will find the signed copies of manifest(s) and associated summary reports for waste(s) shipped to the Southeast Texas Landfill District facilities for the month of November, 1998.

Please review your manifests on a monthly basis and advise if additional copies are needed.

If we can be of further assistance or if you have any questions, please let us know. Thank you for the opportunity to service your waste disposal needs.

Sincerely,

BFI WASTE SYSTEMS OF NORTH AMERICA, INC.

Carolyn Bonds

Sales Support

**Enclosures** 

on Behalf of the TURCE as required by a state contract
GENERATOR

GE TOR NAME WRS ITE INC.	GENERATING LOCATION SOL LYNN IN TRADSFORMER
	DORESS 8721 DAVID 56
Houston, Tx. 77032	Houston, Tx. 77054
PHONE NO. 7/3 7998034	STATE GENERATOR ID NUMBER 8 / 09 /
T.N.R.C.C. DESCRIPTION C	OF WASTE QUANTITY UNITS DORUM
NON Contaminated Concrete	00025 Ya scurron
BFI WASTE CODE	779198
T.N.R.C.C. DESCRIPTION O	OF WASTE Y-YARDS
	OOTHER
BFI WASTE CODE	
T.N.R.C.C. DESCRIPTION C	OF WASTE
BFI WASTE CODE	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is n	$\mathcal{V}$
been properly described, classified and packaged, and is in proper condition for transp	ortation according to applicable regulations; AND, if the waste is a treatment residue cions, I certify and warrant that the waste has been treated in accordance with the
equirements of 40 CFR Part 258 and is no longer a hazardous waste as defined by 40	
Richard Sett	B-17800 11/188
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME SIGNATURE	SHIPMENT DATE
the state of the transport of the state of t	ORTER
TRUCK NO	PHONE NO. 930-1200
TRANSPORTER NAME Gaccier Environmental	DRIVER NAME (PRINT) Vincent Brewer
ADDRESS 1717 W. 13th 5t.	VEHICLE LICENSE NOJSTATE ZN7-717 TX.
Deer Park, TEXAS	STATE TRANSPORTER ID NO. 40725
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE	I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED
GENERATOR SITE LISTED ABOVE.	WITHOUT INCIDENT TO THE DESTRIATION LISTED BELOW.
111198	(11/98
DRIVER SIGNATURE SHIPMENT DATE	DRIVER GIGNATURE DELIVERY DATE
DESTINA	ATION
SITE NAME	BROWN G-FERHLS, INC.
ADDRESS	
	NOV 11 1998
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED AND TO	O THE BEST OF MY KNOWLEDGE THE FOREGOING IS TRUE AND ACCURATE
	THE VIVEST
NAME OF AUTHORIZED AGENT SIGNATURE	HOUSTON TE 17
	7-7-875



November 13, 1998

#### Dear Customer:

Enclosed you will find the signed copies of manifest(s) and associated summary reports for waste(s) shipped to the Southeast Texas Landfill District facilities for the month of October, 1998.

Please review your manifests on a monthly basis and advise if additional copies are needed.

If we can be of further assistance or if you have any questions, please let us know. Thank you for the opportunity to service your waste disposal needs.

Sincerely,

BFI WASTE SYSTEMS OF NORTH AMERICA, INC.

Patricia Yates Sales Support

**Enclosures** 

## Generator Report

## **Generator WRS INFRASTRUCTURE & ENVIRONMENT**

ntry Date:	Wcd		Actu:	al Weight	Quantit	<b>y</b>	Manifest	BFI No	Location
10/15/98 15:01:00	SIO	NONCONTAMINATE CONCRETE, SOIL &	0	TNS	25	YD	123657	179198	McCarty
10/27/98 10:08:00	SIO	NONCONTAMINATE CONCRETE, SOIL &	0	TNS	20	YD	123658	179198	McCarty
10/30/98 12:29:00	SIO	NONCONTAMINATE CONCRETE, SOIL & DEBRIS	0	TNS	25	YD	123660	179198	McCarty

GENERATOR NAME WAS THE INC GENERATING LOCATION SOLLWIN IND TRANSFORME  ADDRESS 1428E NORTH BELT # 190 ADDRESS 8721AS DAVID ST
ADDRESS 1428E NORTH BELT # 190 ADDRESS 8721AS DAVID ST
HOUSTON, TX 77032 HOUSTON, TX 77054
PHONE NO. 713 7998034 STATE GENERATOR ID NUMBER 8109
T.N.R.C.C. DESCRIPTION OF WASTE QUANTITY UNITS DOPLAR COURT
BFI WASTE CODE TITRLO
T.N.R.C.C. DESCRIPTION OF WASTE
COME CONTROL OF THE C
BFI WASTE CODE
T.N.R.C.C. DESCRIPTION OF WASTE
BFI WASTE CODE
GENERATOR'S CERTIFICATION: I hereby carify that the above named graterial is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, which in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land. Disposal Restrictions, I certify and warrant that the waste has been requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME SIGNATURE SHIPMENT DATE
TRANSPORTER WEST CONTROL OF THE PROPERTY OF TH
TRUCK NO
TRANSPORTER NAME GARME Equision mondal DRIVER NAME (PRINT) Doc Cob
ADDRESS 1717 W. 13+151. VEHICLE LICENSE NOUSTATE GWG 1208
Deer Park, Tr. 77536 STATE TRANSPORTER ID NO. 40725
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVE
GENERATOR SITE LISTED ABOVE.  WITHOUT RICIDENT TO THE DESTINATION LISTED BELOW.
DRIVER SCHATURE SHEPHENT DATE DRIVER SIGNATURE DELIVERY DATE
DESTINATION
SITE NAME BET PHONE NO. 713-674392
ADDRESS 11013 OLD REAUMONT HWY, HOUSTON, TX 77078 MUSTON.  THEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL HAS BEEN ACCEPTED AND TO THE BEST OF MY KNOWLEDGE THE PORESONO IS THUE AND ACCUPATE.
MILE AND THE MANUEL MATERIAL THE BEST OF MIT KNOWLEDGE THE PREGOING IS THOS AND ACCORDED.
NAME OF AUTHORIZED AGENT  SIGNATURE  196# LUNG THU DELIVERATION OF AUTHORIZED AGENT  1774-01-11-11-11-11-11-11-11-11-11-11-11-11-

REORDER ONLY THROUGH BFI / UARCO CONTRACT GENERATOR SECOND COPY (TO BE DETLIBNED)

## TEXAS

NO. 123658

NON-HAZARDOUS SPECIAL WA	ASTE MANIFEST \
W BEHALE OF THE THRCC AS REQUIRED BY GENER	A STATE CONTRACT
	GENERATING LOCATION SOL LYNN IND TRUSPORMER
ADDRESS 1428E NORTH BELT #190	ADDRESS HOUSTON, TX 77054
HOUSTON, TX 77032	8721A S DAVID ST
PHONE NO. 7113 7998034  T.N.R.C.C. DESCRIPTION C	STATE GENERATOR ID NUMBER 8 1 9 1  OF WASTE  OUANTITY  UNITS DORUM
MA CONTAMUNTED CONSETE	Sout Mix. Depart DOD 2 0 X comon
BFI WASTE CODE	179198
T.N.R.C.C. DESCRIPTION C	
BFI WASTE CODE	
T.N.R.C.C. DESCRIPTION (	OF WASTE: A 2 to Tigother of April 1997
BFI WASTE CODE	
been properly described, classified and parketed, and light hypner condition for trans-	a 202798
TRANSP	33,774
TRUCK NO. 38	PHONE NO. 930 - 1200
TRANSPORTER NAME <u>Carnel Environmental</u>	DRIVER NAME (PRINT) JEFF KETTHIEY
ADDRESS 1717 W 13 5	VEHICLE LICENSE NO/STATE 1222 F24 TX
Deler Park TX	STATE TRANSPORTER ID NO. 40 725
I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.	I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED
102758	WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.
DRD/ER/SIGNATURE SHIPMENT DATE	WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.    1
DESTIN	DELIVERY DATE
- 1 A MARKET A	DELIVERY DATE
DESTIN	PHONE NO PHO
SITE NAME 13 FT	DELVERY DATE  ATION  PHONE NO THE DELVERY DATE  OUSTON, TX 77 OT 82 7 100
ADDRESS 11013 OLD REALMONT HILLY HO	DELVERY DATE  ATION  PHONE NO THE DELVERY DATE  OUSTON, TX 77 OT 82 7 100

NO. 123660

On behalf of the THRCC or Required by a state Contract

GENERATOR						
GENERATOR NAME WRS THE TIME	GENERATING LOCATION SOL LYNIAL THO TRANSPORT					
ADDRESS 1428 E North Bett #190	ADDRESS 8721 AS David St					
Houston TX 77032	Haiston TX 20054					
PHONE NO. 713 9998034	STATE GENERATOR ID NUMBER 81091					
T.N.R.C.C. DESCRIPTION						
MA IN CONTEMPNATED ONC	ETE SOLL 4 DEDAS [DIOO SISTEMATICALITY]					
BFI WASTE CODE	179198 / BBAG FITHUCK					
T.N.R.C.C. DESCRIPTION	OF WASTE PPOUNDS					
	оотея					
, BFI WASTE CODE						
T.N.R.C.C. DESCRIPTION	OF WASTE					
BFI WASTE CODE						
of a previously restricted hazardous waste subject to the Land Disposal Rest requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by	O CFR Part 261.					
PLEASE PRINT OR TYPE GENERATOR AUTHORIZED AGENT NAME SIGNATURE TRANSF	SHIPMENT DATE					
TRANSF	PHONE NO. <u>430</u> /200					
TRANSPORTER NAME Garage Engrange tal	PORTER					
TRANSF	PHONE NO. <u>430</u> 1200					
TRANSPORTER NAME Garage Engrange tal	PORTER  PHONE NO. 930 1200  DRIVER NAME (PRINT) 504 665					
TRANSPORTER NAME Goine Environmental  ADDRESS 1717 W 13 St  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE	PHONE NO. 930 /200  DRIVER NAME (PRINT) OCC G66  VEHICLE LICENSE NO/STATE GW6 138  STATE TRANSPORTER ID NO. 40735  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED					
TRANSPORTER NAME Goiner Environmental  ADDRESS 1717 W 13 5+  Deer Perk TX	PHONE NO. 930 1200  DRIVER NAME (PRINT) OCC G66  VEHICLE LICENSE NO/STATE GW6 138  STATE TRANSPORTER ID NO. 40735					
TRANSPORTER NAME GOINE Environmental  ADDRESS 1717 W 13 St  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.  LOW 103098	PHONE NO. 930 /200  DRIVER NAME (PRINT) OCC 665  VEHICLE LICENSE NO/STATE 6 6 138  STATE TRANSPORTER ID NO. 40735  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.					
TRANSPORTER NAME GOME Environmental  ADDRESS 1717 W 3 57  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.  DRIVER SIGNATURE  SHIPMENT DATE	PHONE NO. 930 200  DRIVER NAME (PRINT) OCC 665  VEHICLE LICENSE NO/STATE 6 40 138  STATE TRANSPORTER ID NO. 40735  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED WITHOUT INCOUNT TO THE DESTINATION LISTED BELOW.					
TRANSPORTER NAME GOME Environmental  ADDRESS 1717 W 3 57  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.  DRIVER SIGNATURE  SHIPMENT DATE	PHONE NO. 930 /200  DRIVER NAME (PRINT) OCC 665  VEHICLE LICENSE NO/STATE 6 6 138  STATE TRANSPORTER ID NO. 40735  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.  DRIVER SIGNATURE  DELIVERY DATE					
TRANSPORTER NAME GOINE Environmental  ADDRESS 17/7 W 13 5+  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.  DRIVER SIGNATURE  DESTIN	PHONE NO. 930 /200  DRIVER NAME (PRINT) OCC 665  VEHICLE LICENSE NO/STATE 6 6 138  STATE TRANSPORTER ID NO. 40735  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.  DRIVER SIGNATURE  DELIVERY DATE					
TRANSPORTER NAME GOINE ENLIQUED TO A STEELISTED ABOVE.  DESTINATION SITE LISTED ABOVE.  SHIPMENT DATE  DESTINATION SITE ABOVE.  DESTINATION STEELISTED ABOVE.  DRIVER SIGNATURE  DESTINATION SITE ABOVE.  DESTINATION STEELISTED ABOVE.	PHONE NO. 930 200  DRIVER NAME (PRINT) OCC C665  VEHICLE LICENSE NO/STATE GW6 138  STATE TRANSPORTER ID NO. 40735  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED WITHOUT INCIDENT TO THE DESTINATION LISTED BELOW.  DRIVER SIGNATURE DELIVERY DATE  IATION - 77078					
TRANSPORTER NAME GOINE ENWOUGHTA!  ADDRESS 1717 W 3 5+  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS PICKED UP AT THE GENERATOR SITE LISTED ABOVE.  DRIVER SIGNATURE  SHIPMENT DATE  DESTINATION OF BRIDGE STREET OF STREET	PHONE NO. 430 200  DRIVER NAME (PRINT) OCC G66  VEHICLE LICENSE NO/STATE GW6 138  STATE TRANSPORTER ID NO. 40735  I HEREBY CERTIFY THAT THE ABOVE NAMED MATERIAL WAS DELIVERED WITHOUT INCOENT TO THE DESTINATION LISTED BELOW.  DRIVER SIGNATURE  DELIVERY DATE  ATION					
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October 16, 1998

Dear Customer:

Enclosed you will find the signed copies of manifest(s) and associated summary reports for waste(s) shipped to the Southeast Texas Landfill District facilities for the month of September, 1998.

<u> 7</u> (

Please review your manifests on a monthly basis and advise if additional copies are needed.

If we can be of further assistance or if you have any questions, please let us know. Thank you for the opportunity to service your waste disposal needs.

Sincerely,

BFI WASTE SYSTEMS OF NORTH AMERICA, INC.

Patricia Yates

Sales Support

**Enclosures** 

SUBMITTAL TRANS	SMITTA	L FORM		No. <u>29</u>		
PROJECT:	Sol Lynn/Industrial Transformers Site Remedial Action Harris County, Texas					
AGENCY:	TNRC					
CONTRACT NO.:		501 00				
DATE OF ISSUANCE:		15, 1999				
CONTRACTOR:		nfrastructure & En	vironment, Ir	nc.		
ENGINEER:		International, LLC				
<u></u> :		· <b></b>				
ROUTING		SENT (Date, Sig	nature)	Received (Date, Signature)		
Contractor to Engineer		3/15/99	2	- 3/16/99 JankKorni		
Engineer to Contractor				. , ,		
Contractor to Agency		V				
SUBMITTAL			_			
Item: PLC Program Disk	ette					
Specification Section: Change Ord	ier Numb	er 8	Equipment 1	Designation:		
Drawing No.:			Location:			
Other:		•	Number Of Copies:			
Previous Submittal date:			Revision N	umber:		
	<del></del>			<u> </u>		
CONTRACTOR'S VER This submittal meets all XX Without Exception Remarks:	l the requ	uirements of the C				
1 - 0						
By: fool			<u>March 15, 1999</u>			
Contractor (Authoriz	ed Signat	ture)	Da	ite		
V						
SUBMITTAL REVIEW			_			
Number of Copies 1			ions Taken	Revise and Resubmit		
Exceptions as Note	<u>d</u>	Rejected				
Remarks:						
By:	d Ciamata		-  -	Onto		
Engineer (Authorized	a Signatu	re)	با ا	Pate		

Distribution:

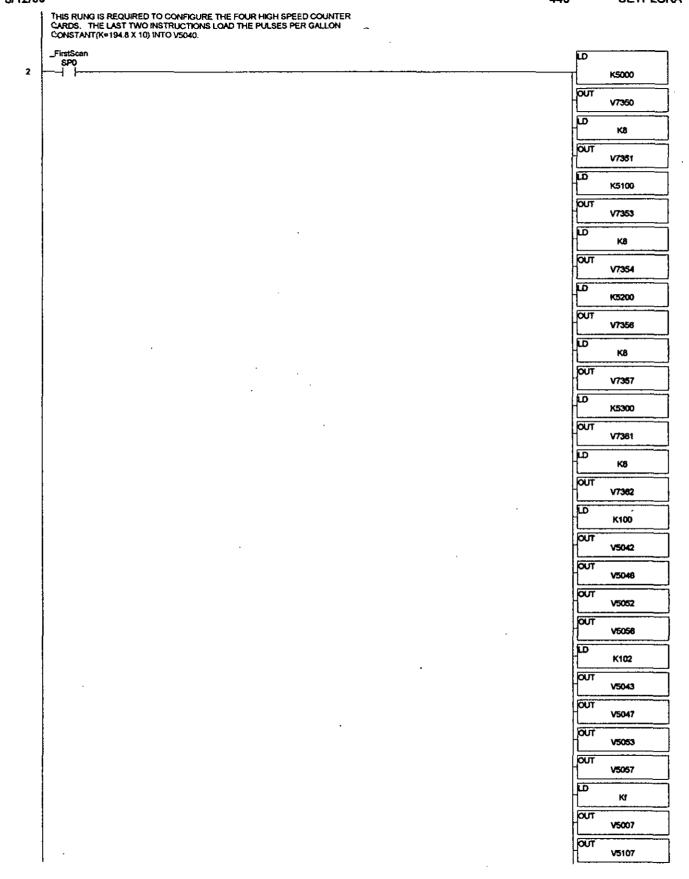
Contractor

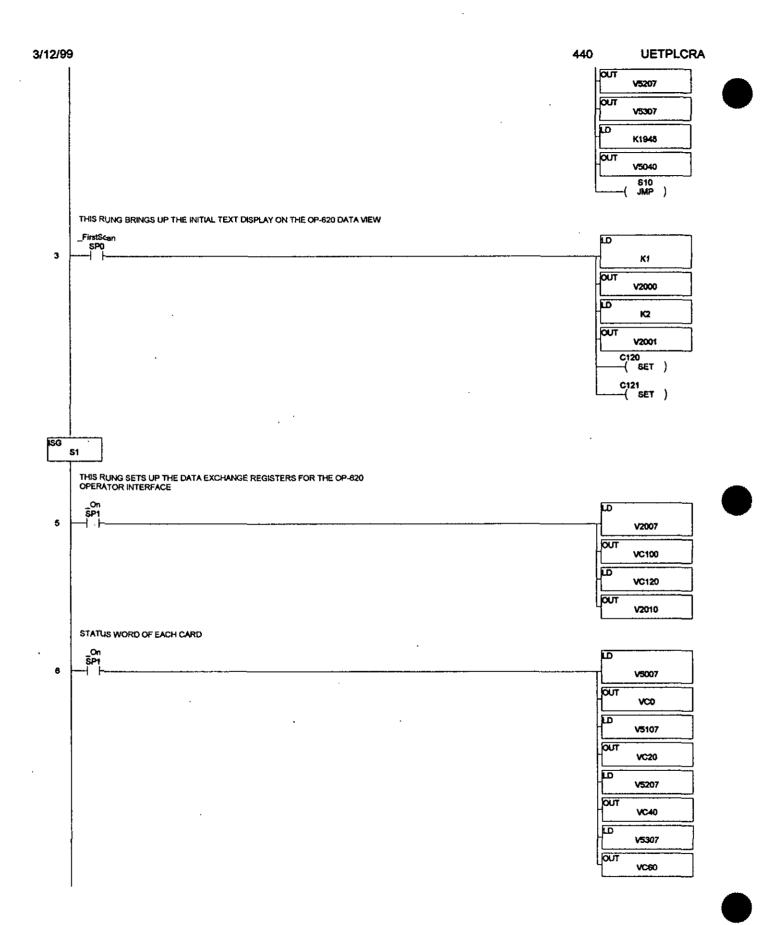
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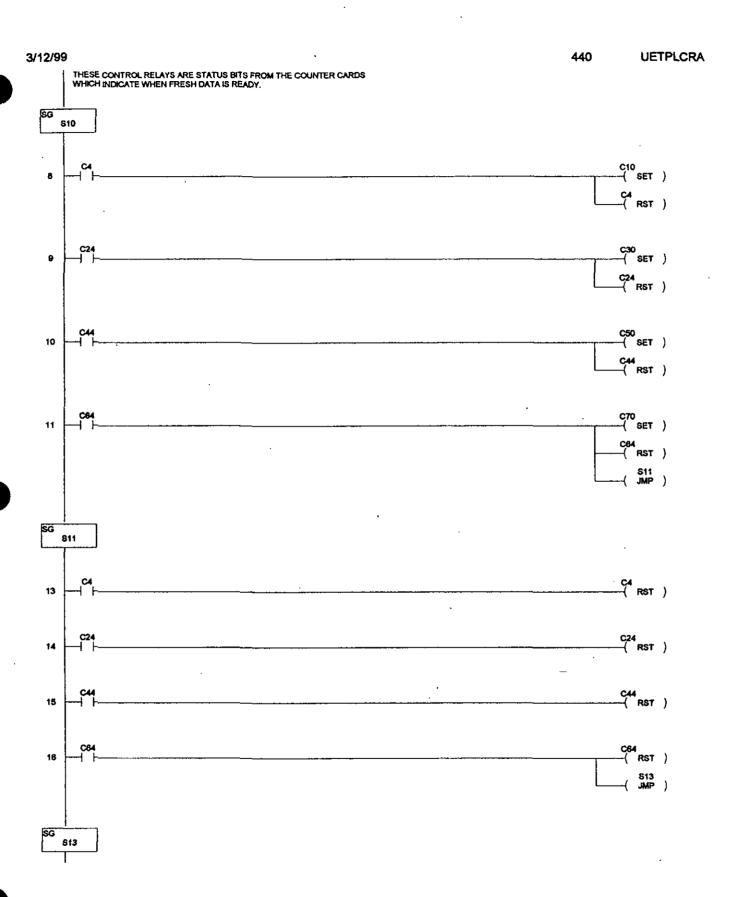
Engineer TNRCC

PROGRAM FOR UET
PROGRAM BY KEN MATHIS 11/14/98

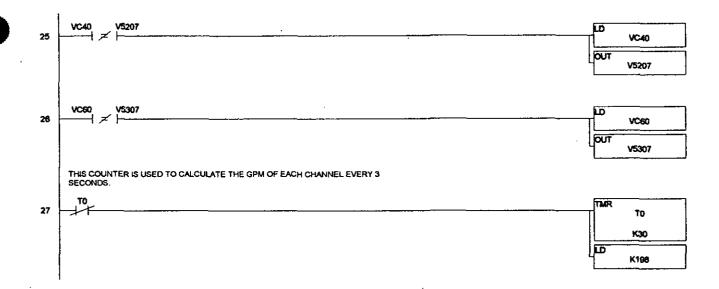
REV A. 3/13/99 KJM
MODIFIED GPM CALCULATION TO UPDATE EVERY 3 SECONDS

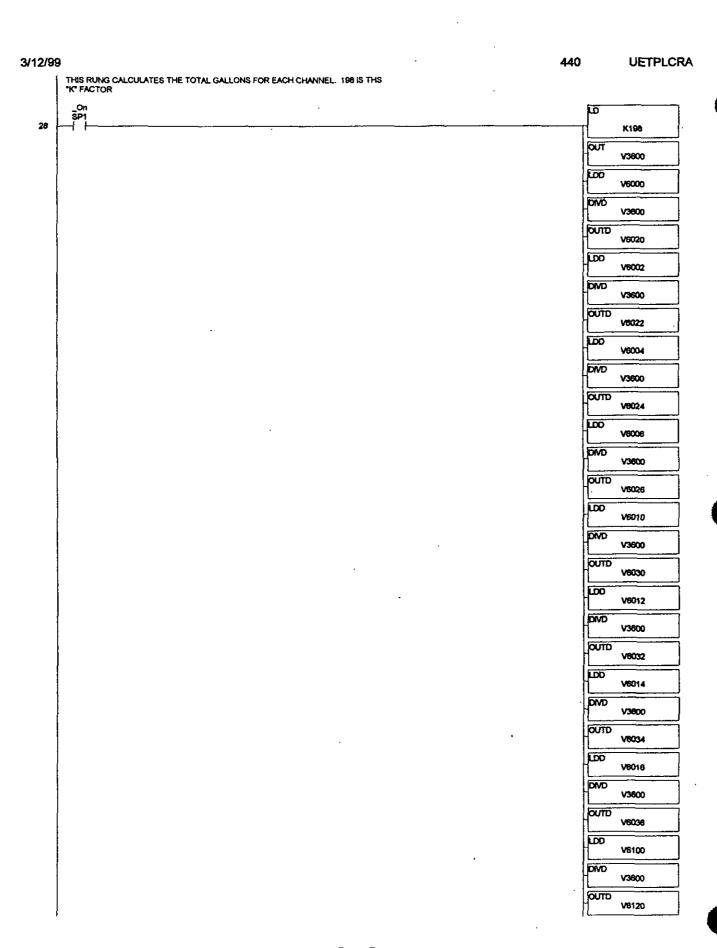


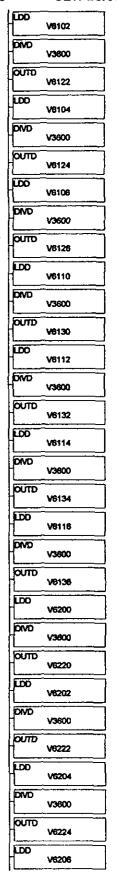




Page 5







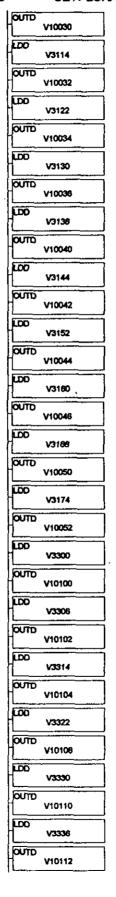
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LDO	V6300
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DIVD	V3800
OUTD	V6322
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DMD	V3600
OUTD	V8324
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OUTD	V3600
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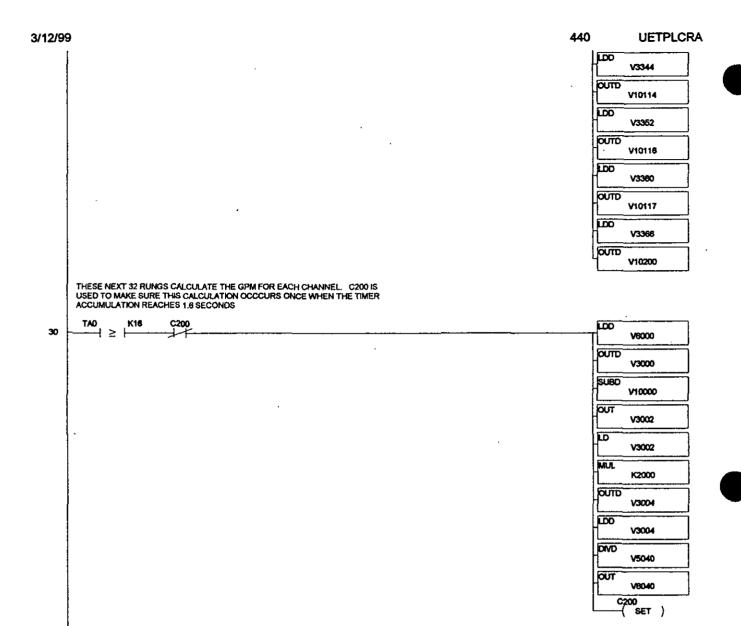
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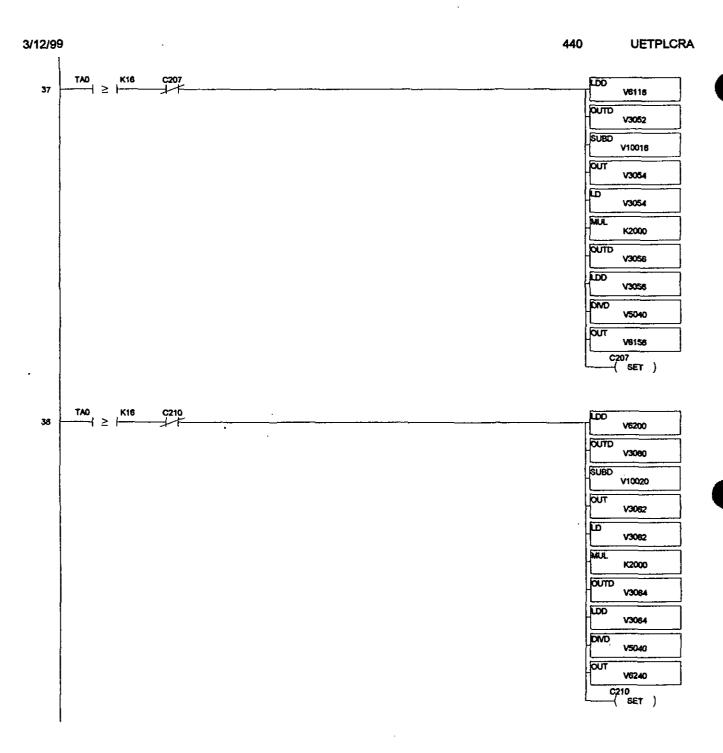
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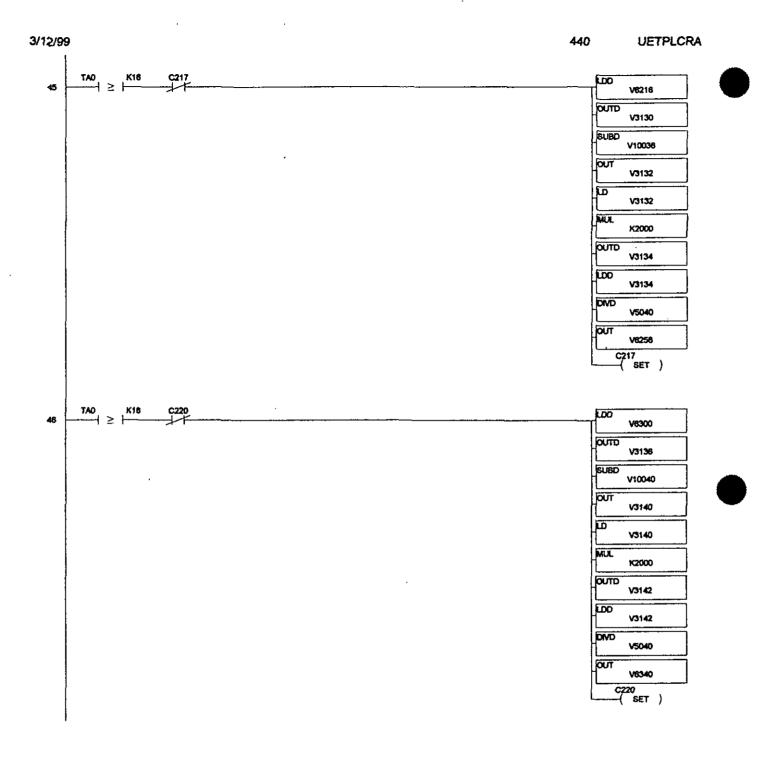
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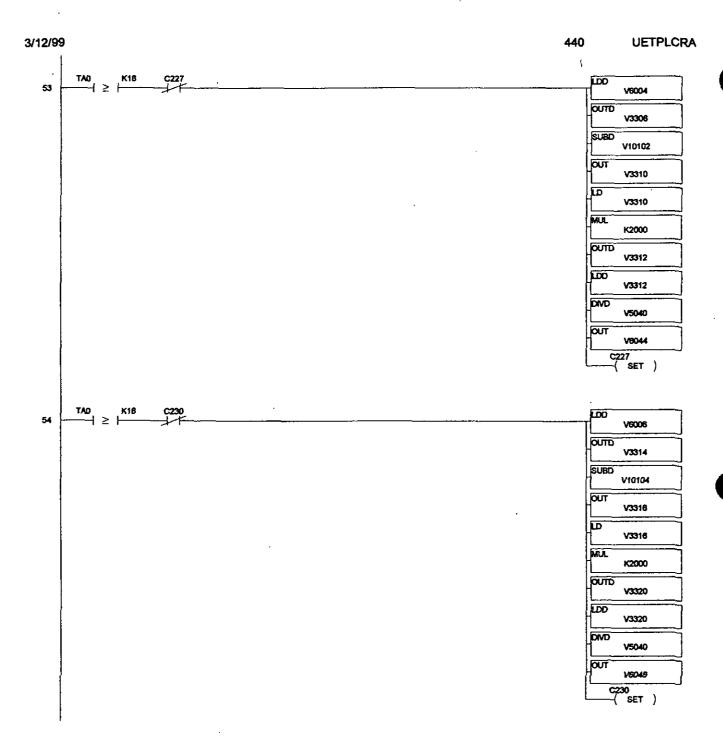
IT ALSO MOVES THE LAST TOTAL BITS COUNT TO A REGISTER: GPM=CURRENT BITS COUNT - LAST BITS COUNT(OVER A TIME OF ONE MIN) LD 29 ΚĎ OUT VC200 OUT VC220 LDD V3000 OUTD V10000 LDD V3006 OUTD V10002 LDD V3014 OUTD V10004 LDD V3022 **GTUO** V10006 LDD V3030 OUTD V10010 LDD V3036 OUTD V10012 V3044 OUTD V10014 LDO V3052 OUTD V10018 LDC V3060 OUTO V10020 100 V3066 OUTD V10022 LDD V3074 OUTD V10024 LDO V3100 OUTO V10026 LDD V3108

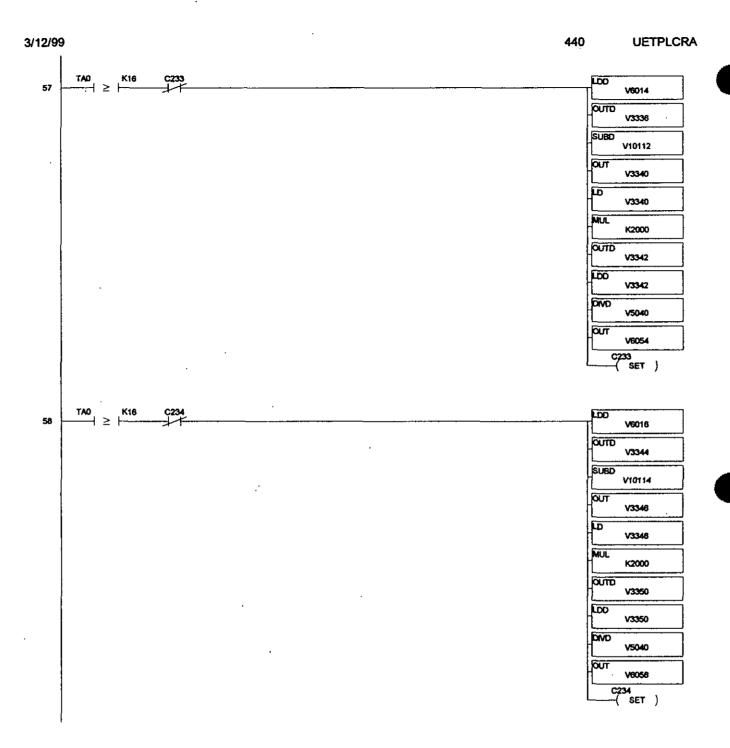


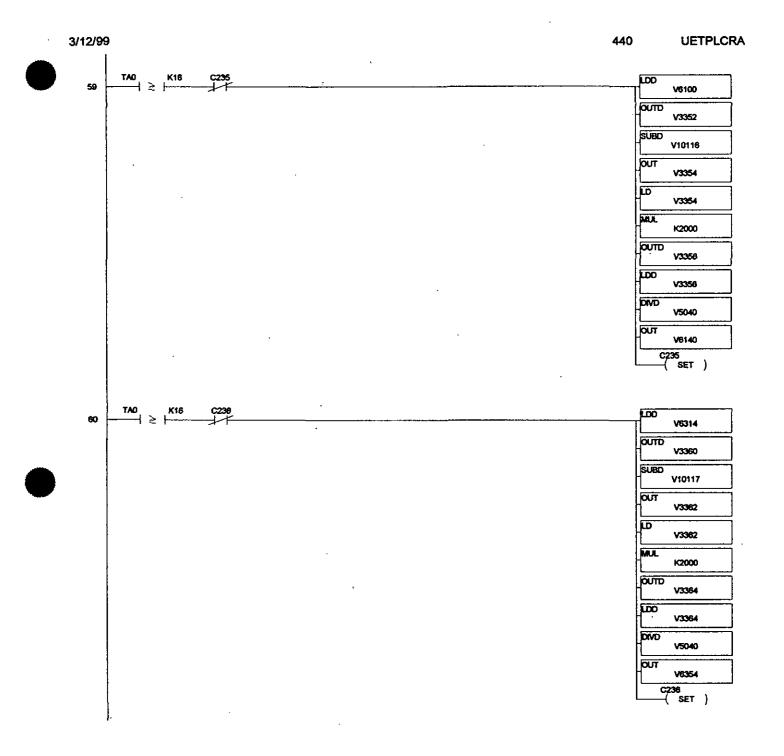


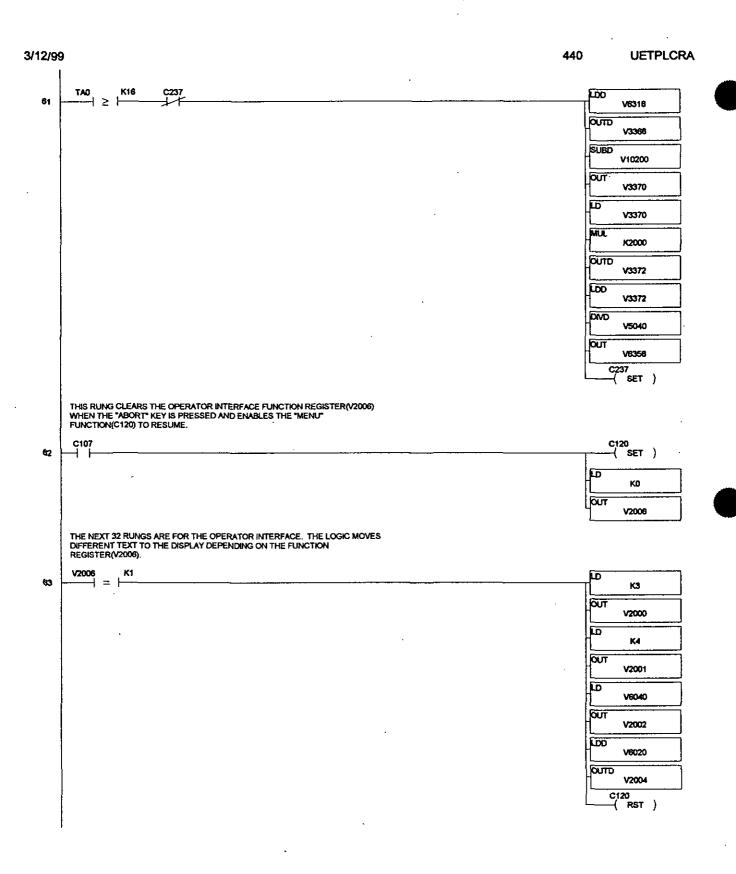


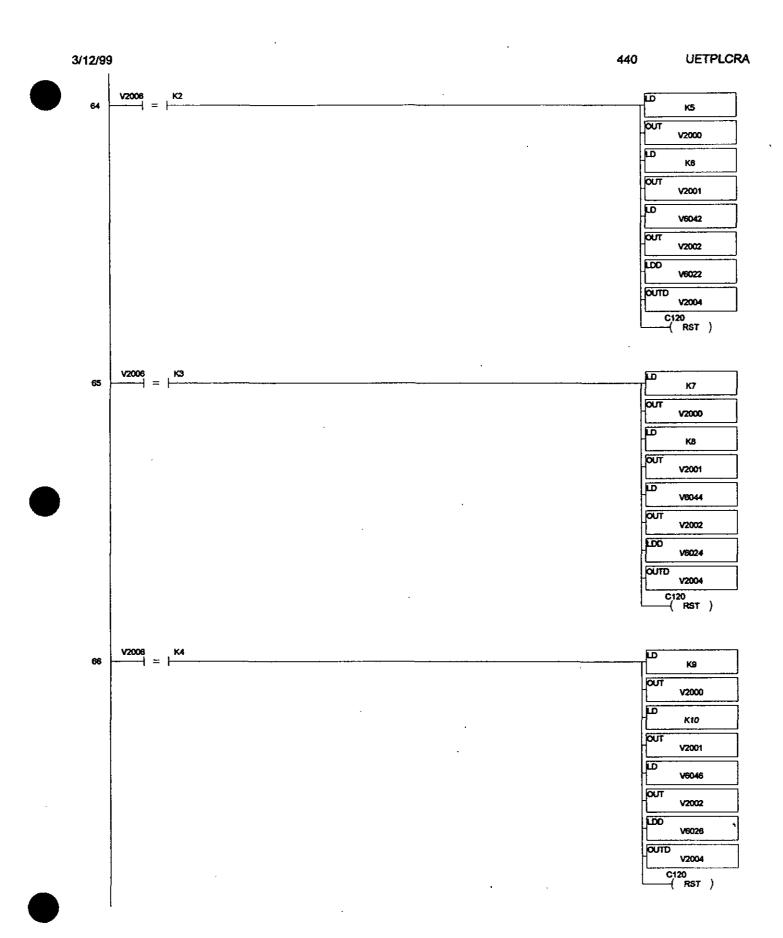


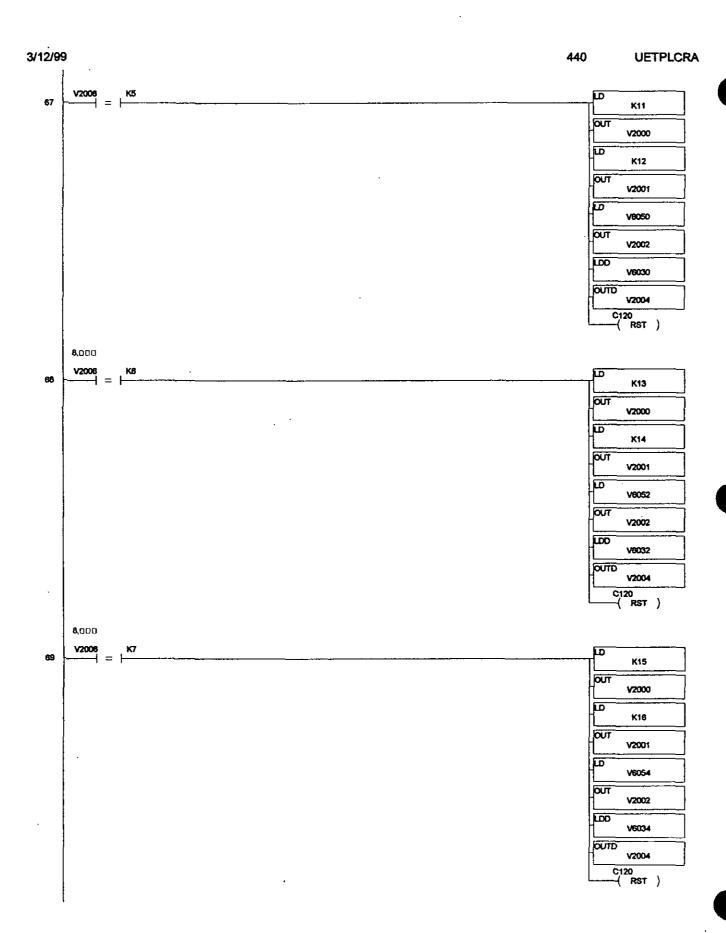


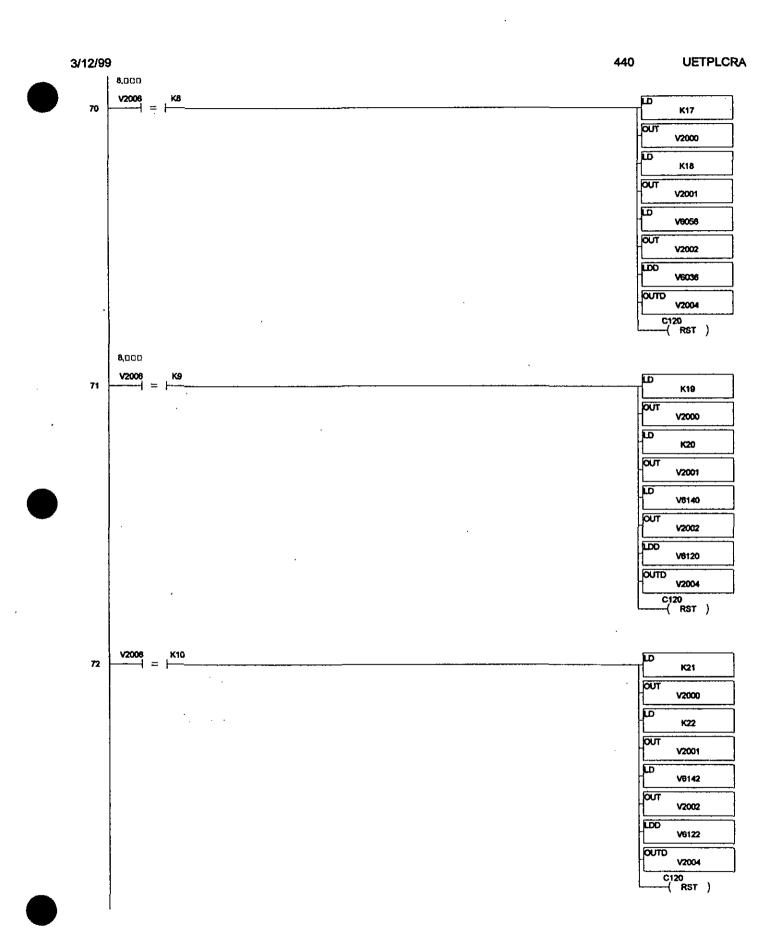


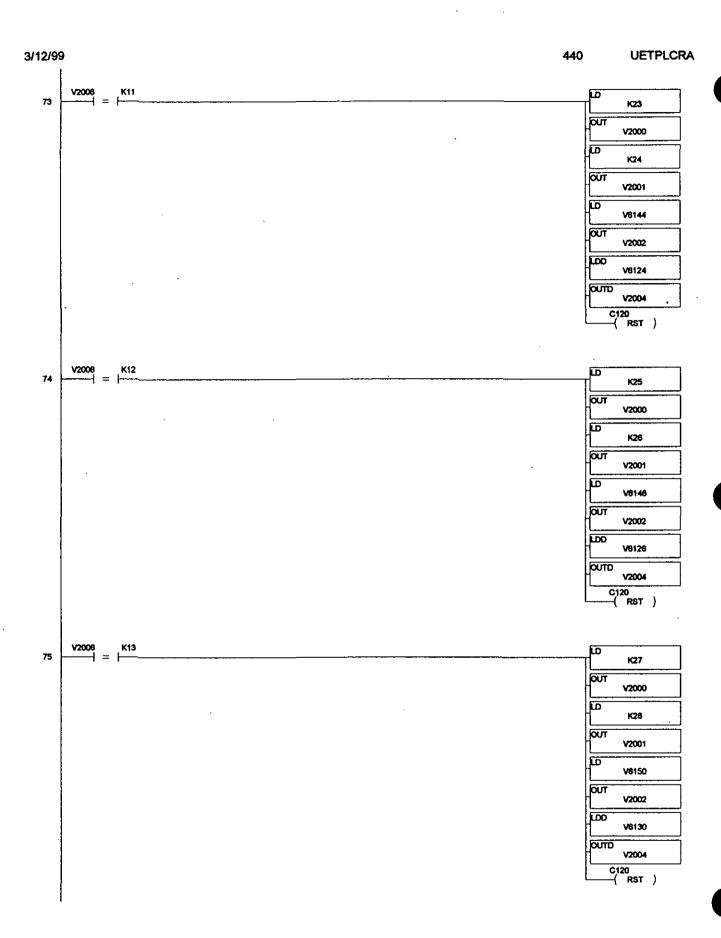


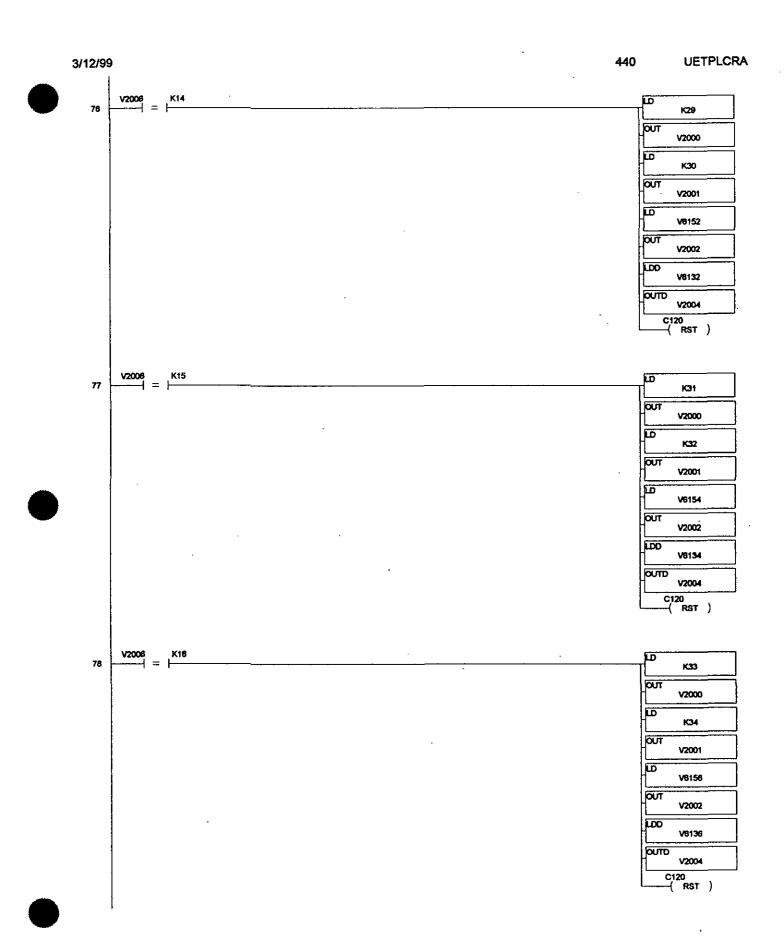


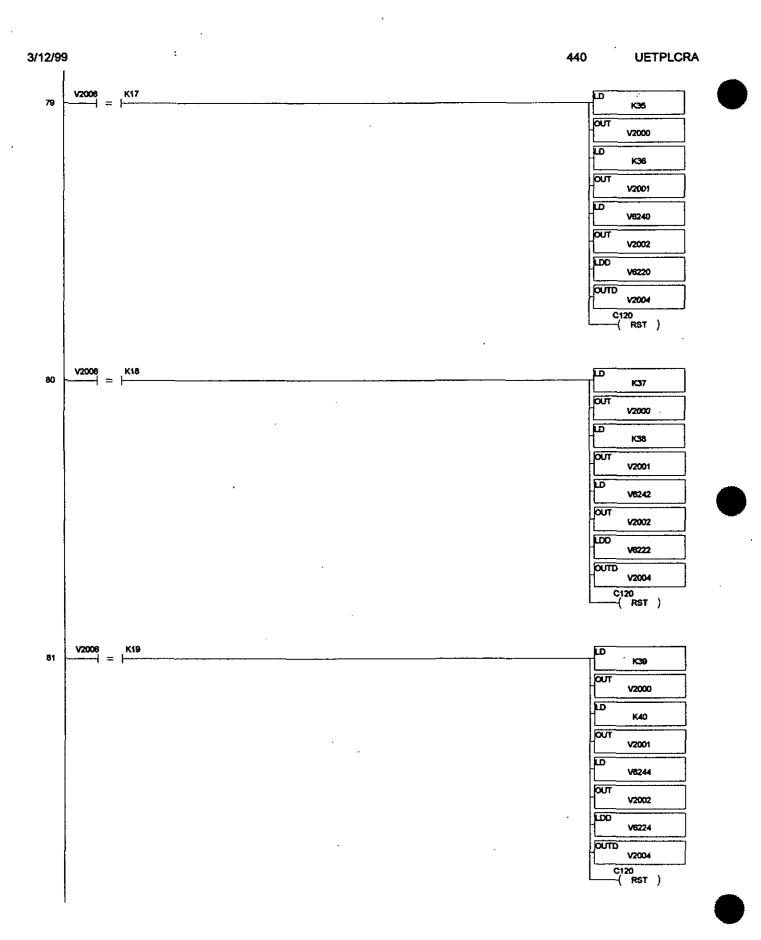


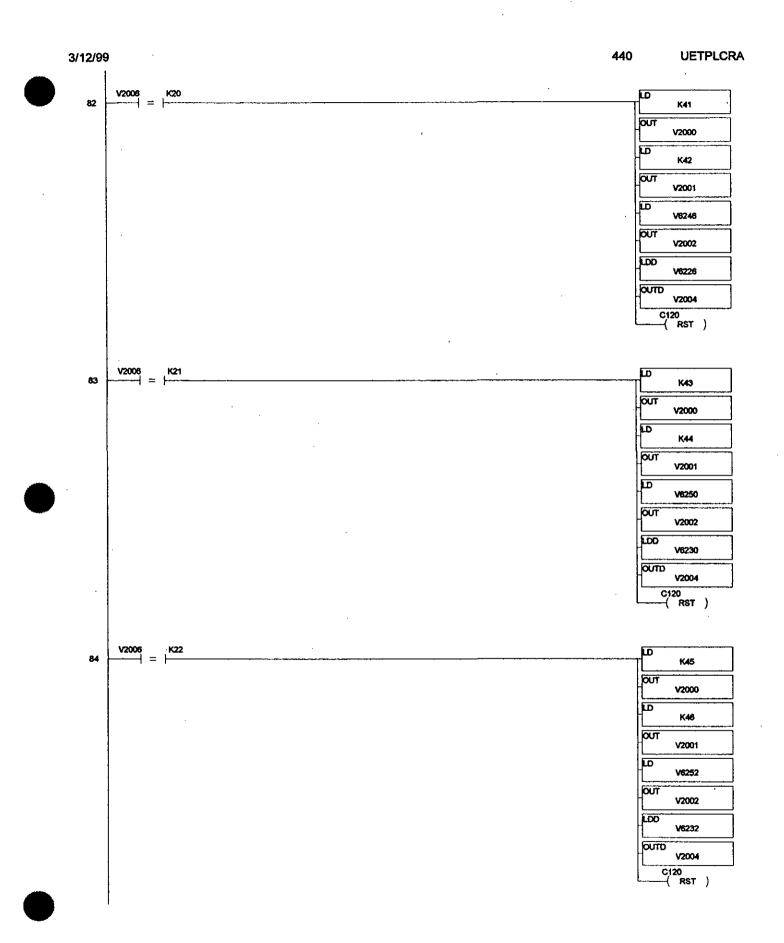


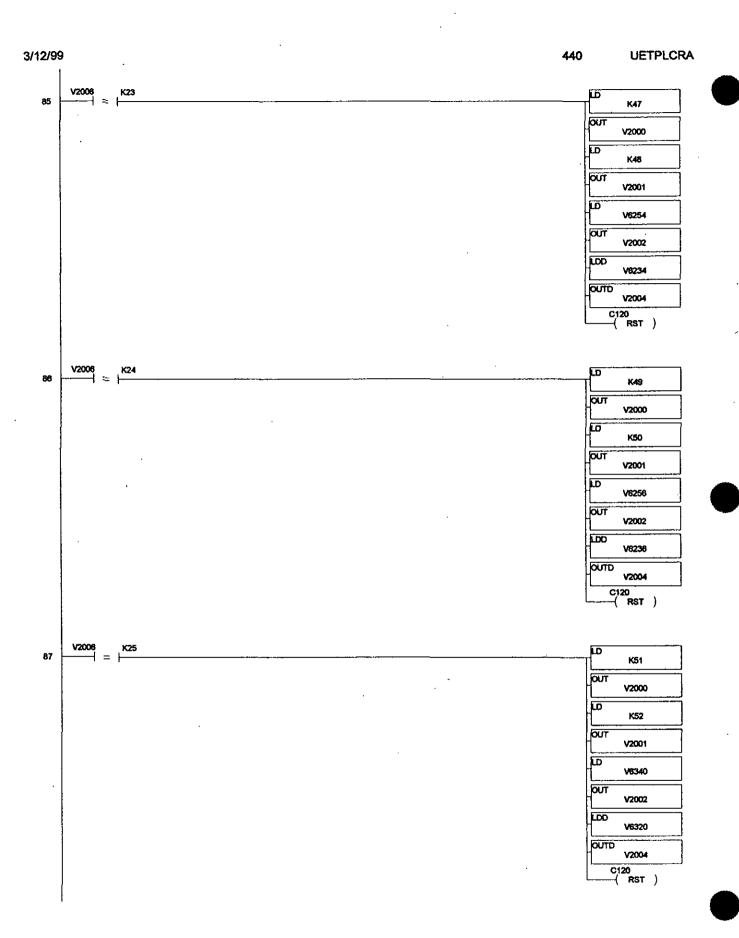


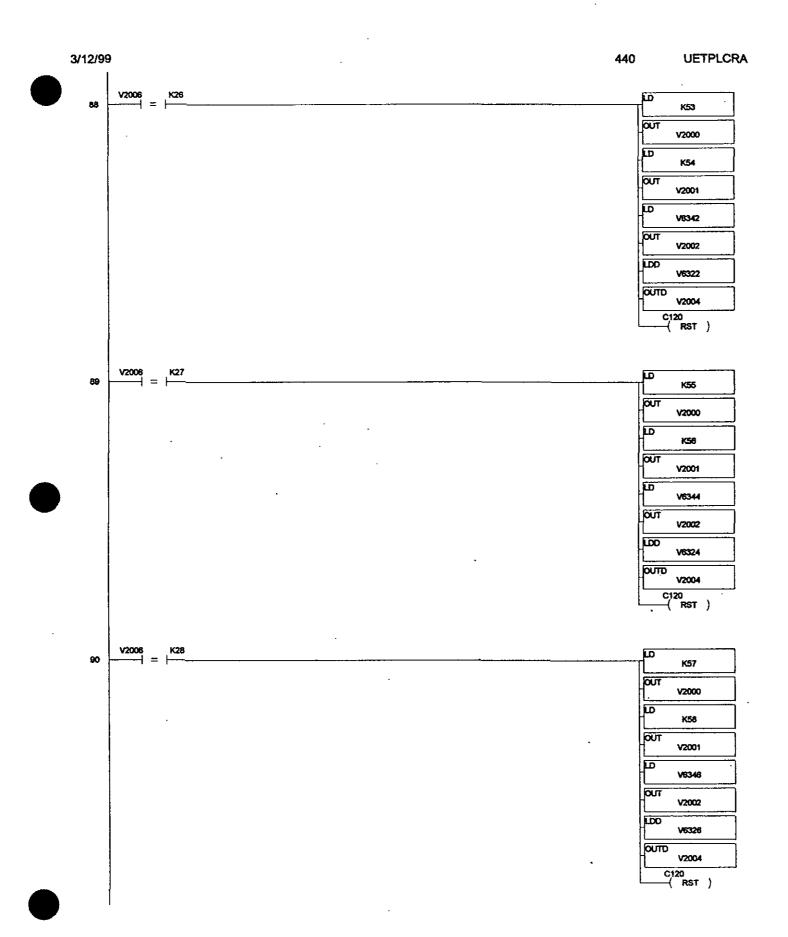


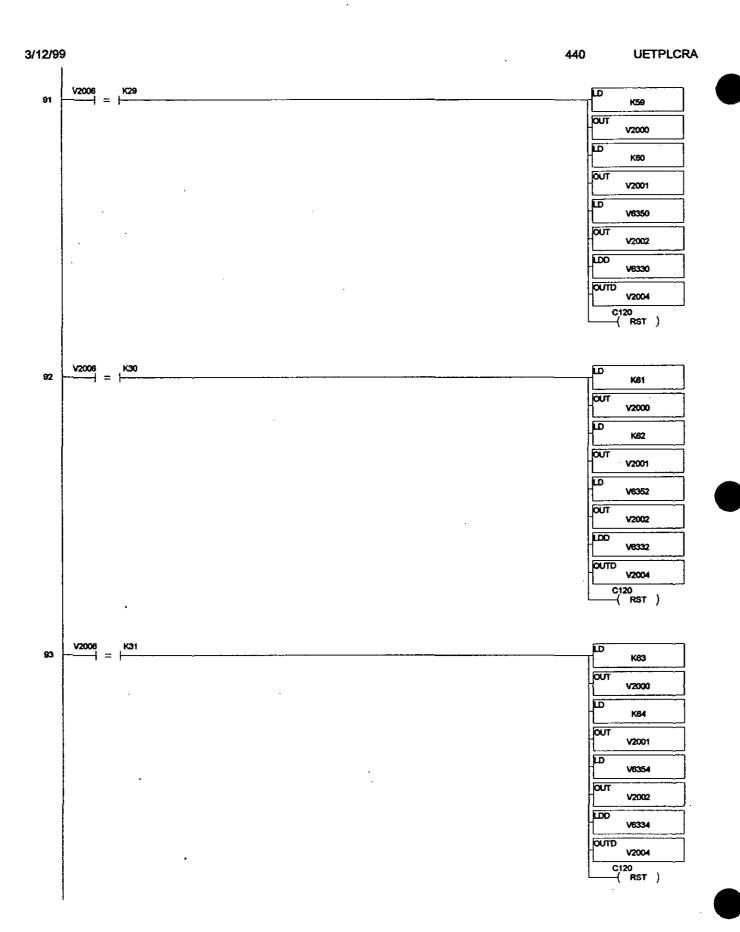


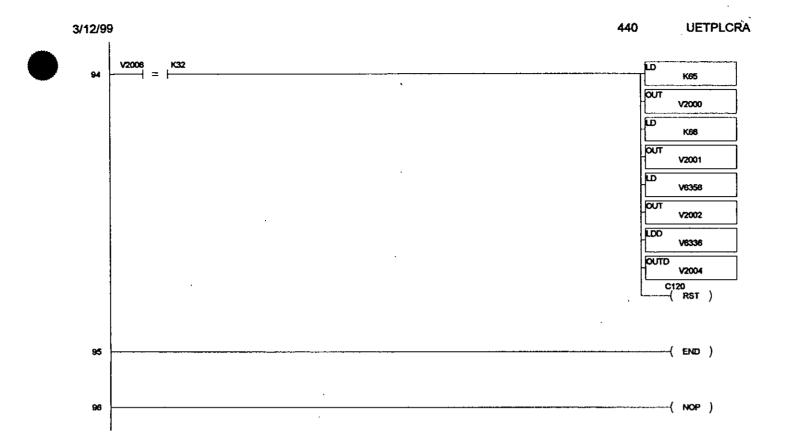














APPENDIX C Radian's Daily Reports

### MEMORANDUM

To:

James Sher, Texas Natural Resource Conservation Commission

CC:

John Kovski, Radian International LLC

From:

Mariano Gomez, Radian International LLC

Date:

5/20/99

Re:

Sol Lynn Industrial Transformers Superfund Site Daily Progress

Report for 9/15/98

#### The following was accomplished during 9/15/98:

- •. 78 feet of old extraction piping and associated electrical conduits were excavated. The area excavated is between wells SE-3 and SE-4.
- The old extraction piping was transported to the decontamination pad. No decontamination activities took place.
- •. Continued to clear vegetation in the area between groundwater treatment system pad and the carpet warehouse.
- . Construction activities ceased at approximately 1300 hours due to the inclement weather.

Construction Days - 4

Weather Delay Days B 2

Total Days - 6

# **MEMORANDUM**

To:

James Sher, Texas Natural Resource Conservation Commission

CC:

John Kovski, Radian International LLC

From:

Mariano Gomez, Radian International LLC

Date:

5/20/99

Re:

Sol Lynn Industrial Transformers Superfund Site Daily Progress

Report for 9/17/98

The following was accomplished during 9/17/98:

No construction activities took place due to the sloppy site conditions caused by this week=s inclement weather.

Construction Days - 4

Weather Delay Days _ 3

Total Days - 7

From:

Gomez_Mariano

Sent:

September 22, 1998 8:37 AM

Cc:

'JSHER@tnrcc. state. tx. us' Kovski_John; Gomez_Mariano

Subject:

Dailiy status report 9/21/98

The following was accomplished during 9/21/98:

- Site activities resumed after delays caused by last week's inclement weather.

- 267 feet of extraction and associated piping were removed. The area from SE-6 and cellular phone store has been cleared except for 36 feet of secondary containment piping that were not removed from under the concrete driveway located adjacent to SZE-3.

- The extraction piping has been stock pilled. No decontamination has taken place. The Contractor believes that no decontamination is required as OVM readings above background have been taken. The Contractor will collect wipe samples for analysis prior to disposal.
  - To date, there have been no OVM readings that exceed background levels.

Construction Days - 5 Weather Delay Days - 4 Total Days - 9

From:

Sent: To:

Gomez_Mariano September 23, 1998 4:22 PM 'JSHER@tnrcc. state. tx. us' Kovski_John; Gomez_Mariano daily status report

Cc:

Subject:

The following was accomplished during 9/22/98:

The concrete surrounding eight extraction and/or recharge wells was demolished.

Demolished piping was stored in roll-off box.

Construction Days - 6 Weather Delay Days - 4 Total Days - 10

From:

Gomez_Mariano

Sent:

To: Cc:

September 23, 1998 4:30 PM 'JSHER@tnrcc. state. tx. us' Kovski_John; Gomez_Mariano Dailiy Status Report 9/22/98

Subject:

The following was accomplished during 9/22/98:

Ø The concrete surrounding eight extraction/recharge well vaults was demolished.

Ø Excavated piping was relocated to a roll-off box for storage.

Ø Concrete cutting activities took place along David street and the alleyway between the carpet business and the mobile phone business.

On-site personnel for the Contractor included:

Project Manager Health and Safety/QA Officer 2 - Equipment operators 2 - Laborers Concrete cutting crew

Construction Days - 6 Weather Delay Days - 4 Total Days - 10

From:

Gomez Mariano

Sent:

September 24, 1998 1:50 PM

To:

Cc: Subject: 'JSHER@tnrcc. state. tx. us'
Kovski_John; Gomez_Mariano
Daily Status Report 09/23/98

The following was accomplished during 9/23/98:

Ø The concrete surrounding six extraction/recharge well vaults was excavated and placed in roll-off boxes. The roll-off boxes remain on-site.

Ø The concrete surrounding four additional extraction/recharge well vaults was demolished.

Ø Excavated 140 feet of extraction piping. The extraction piping was not removed.

Ø One silty zone extraction well (SZE-6) was completely installed.

Ø The three silty zone extraction wells (SZE-7, SZE-8 and SZE-9) collapsed because of the heavy rains and because they were not grouted when they were originally constructed.

On-site personnel for the Contractor included:

Project Manager Health and Safety/QA Officer 2 - Equipment operators 1 - Laborers **Drilling crew** 

Construction Days - 6 Rain Days - 7 Total Days - 13

From:

Gomez_Mariano

Sent: To:

Cc:

September 26, 1998 3:40 PM 'JSHER@thrcc.state.tx.us' Kovski_John; Gomez_Mariano Daily Status Report for 9/24/98

Subject:

The following was accomplished on 9/24/98:

Extraction wells SZE-8 and SZE-9 were overdrilled to remove collapsed sediments. Both wells were then grouted and completed per specifications.

Approximately 110 feet of asphalt was removed from the eastern edge of the site along South David Street. The extraction pipe and associated pipes were rremoved. The recharge pipe connecting to SZR-1 was not damaged or removed. The excavation was backfilled at the end of the day.

Construction Days - 7 Rain Days - 7 Total Days - 14 (excluding mobilization)

From:

Gomez Mariano

Sent: To:

September 26, 1998 4:48 PM 'JSHER@tnrcc. state. tx. us'

Cc:

Kovski_John; Gomez_Mariano

Subject:

Dailiy Status Report for 9/25/98

The following was accomplished on 9/25/98:

Extraction well SZE-7 was overdrilled to remove collapsed sediments. The well was then grouted and completed per specifications.

MW-31 was drilled and completed.

Approximately 140 feet of extraction pipe and associated pipes were removed from the area connecting SZE - 1 to SZE - 2.

Approximately 76 feet of concrete connecting SZE-2 with SZE-5 were removed (along the east side of the cellular phone dealer). A new sewer line was located in this alleyway above the extraction piping system that needs to be removed.

Initiated the removal of the SZE-5 vault, however, activities were discontinued when transformer parts and PCB odors were detected. Radian has ordered PCB screening kits that will arrive on Saturday for further testing.

The Engineer inspected the 9 pump control panels that were located inside the vaults. It is apparent that, when in the vault, water entered them causing corrosion of the electrical components. The Engineer considers that the components' integrity has been jeopardized and that they should be replaced for system reliability.

Construction Days - 8 Rain Days - 7 Total Days - 15 (excluding mobilization)

From:

Sent:

To:

Dahlke_Jennifer September 30, 1998 3:38 PM 'jsher@tnrcc.state.tx.us'; 'franke.ernest@epamail.epa.gov' Kovski_John; Gomez_Mariano Daily Status Report for 28 September 1998

Cc:

Subject:

The following was accomplished on 28 September 1998:

Installed MW-30 - a four-inch stainless steel well screened at the shallow aquifer. This well is located on Sarah Street near S. David.

Removed 35 feet of extraction and associated piping from under the TxDOT concrete driveway.

Construction Days

10

Weather Delay Days

**Total Days** 

17

Mariano Gomez Radian International LLC

From:

Sent:

To:

Dahlke_Jennifer September 30, 1998 3:37 PM 'jsher@tnrcc.state.tx.us'; 'franke.ernest@epamail.epa.gov' Kovski_John; Gomez_Mariano Daily Status Report for 29 September 1998

Cc:

Subject:

The following was accomplished on 29 September 1998:

- Installed the surface casing for DS-3. This well is located on the northern greenbelt. Traffic control was set up to install this well.
- Excavated 29 feet of extraction and associated piping within TxDOT ROW.
- Attempted to locate extraction piping system crossing the cellular phone distributor's parking lot from east to west. It is apparent that the as-built drawings do not match field conditions.
- Excavated around STE-5 to collect soil samples for PCB analysis. Collection took place several hours behind schedule because of contractual delays.
- **Construction Days** 11 Weather Delay Days 7 18 - Total Days

Mariano Gomez Radian International LLC

From:

Gomez_Mariano

Sent:

October 02, 1998 11:18 AM

To:

Cc:

'franke.ernest@epamail.epa.gov'; 'jsher@tnrcc.state.tx.us' Kovski_John; Gomez_Mariano

Subject:

Daily Status Report for 1 October 1998

#### The following was accomplished on 1 October 1998

Installed MW-28, a shallow aquifer monitoring well.

195 feet of trench were excavated to accommodate the extraction piping and associated conduits. Excavation work did not begin until approximately 1200 hours, after the PCB

analytical results were received.

Analytical results for the PCB samples collected on 20 September 1998 were received. Results showed detectable levels of Aroclor 1260 in all samples ranging from 1.0 to 6.8 parts per million. Aroclor 1016 was detected in one sample to a level of 2.7 parts per

million.

4 surface soil, and 1 subsurface soil samples were collected for PCB analysis.

Construction Days Weather Delay Days

13

**Total Days** 

20

Jennifer Dahlke Project Secretary - Houston (713) 914-6494

From:

Sent:

To:

Dahlke_Jennifer
October 05, 1998 12:41 PM
'jsher@tnrcc.state.tx.us'; 'franke.ernest@epamail.epa.gov'
Gomez_Mariano; Kovski_John; Dahlke_Jennifer
Daily Status Report for 2 October 1998

Cc:

Subject:

The following was accomplished on 2 October 1998:

Excavated 390 feet of trench in the mound area. This excavation will be utilized for the

extraction, electrical and instrumentation piping systems.

Installed approximately 360 feet of electrical and instrumentation conduit.

Installed the surface casing for DS-1, a deep-shallow well located on Sarah Street.

Construction Days: Rail Delay Days: Total Days:

14

21

Mariano Gomez

Radian International LLC

From:

Dahlke_Jennifer

Sent:

October 05, 1998 12:40 PM

To:

'jsher@tnrcc.state.tx.us'; 'franke.ernest@epamail.epa.gov' Gomez_Mariano; Kovski_John; Dahlke_Jennifer Daily Status Report for 3 October 1998

Cc:

Subject:

The following was accomplished on 3 October 1998:

Installed MW-32, a shallow well located on the southern greenbelt east of the site.

Excavated 80 feet of extraction pipe and associated conduits east of Affordable

Communications. No damage to sewer line or recharge piping system.

Excavated 50 feet of extraction pipe and associated conduits along the facility's western fence line near SZE-5. The conduit for the site's security system was not damages.

Construction Days:

15

Rain Delay Days: Total Days:

7 22

Mariano Gomez Radian International LLC

From:

Sent:

To:

Dahlke_Jennifer October 12, 1998 3:12 PM 'jsher@tnrcc.state.tx.us'; 'franke.ernest@epamail.epa.gov' Gomez_Mariano; Kovski_John; Dahlke_Jennifer Daily Status Report for 5 October 1998

Cc:

Subject:

The following was accomplished on 3 October 1998:

Installed the surface casing for DS-4. This deep-shallow well is located on the corner of Knight and Engelmohr Streets.

Excavated approximately 40 feet of extraction and associated piping along the site's

northern fenceline.

Soggy site conditions hampered progress.

Construction Days: Weather Delay Days:

15

Total Days:

8 23

Mariano Gomez Radian International LLC

From:

Sent:

To:

Gomez_Maríano October 26, 1998 5:56 PM 'JSHER@tnrcc.state.tx.us(E-mail)'; 'franke.ernest@epamail.epa.gov' Kovski_John; Gomez_Mariano ITS - Daily Status report for 10/22/98

Cc:

Subject:

### The following was accomplished on 10/22/98:

Completed the concrete pad for MW - 27.

Developed MW - 32 and SZE - 9.

Installed approximately 80 feet of extraction piping and associated electrical and instrumentation conduits along Affordable Communication eastern fenceline.

Construction Days: Rain Delay Days: Total Days: 37

From:

Sent:

To:

Gomez_Mariano October 27, 1998 8:50 AM 'JSHER@tnrcc.state.tx.us(E-mail)'; 'franke.ernest@epamail.epa.gov' Kovski_John; Gomez_Mariano RE: ITS - Daily Status report for 10/22/98

Cc:

Subject:

### The following was accomplished on 10/22/98:

Completed the concrete pad for MW - 27.

Developed MW - 32 and SZE - 9. Installed approximately 80 feet of extraction piping and associated electrical and instrumentation conduits along Affordable Communication eastern fenceline.

23 14 Construction Days: Rain Delay Days: Total Days: 37

From:

Gomez Mariano

Sent:

To:

October 26, 1998 6:11 PM 'JSHER@tnrcc.state.tx.us(E-mail)"; 'franke.ernest@epamail.epa.gov'

Cc:

Kovski_John; Gomez_Mariano; Charles_Robin FW: ITS - Daily Status report for 10/23/98

Subject:

## The following was accomplished on 10/24/98:

Placed approximately 800 feet of electrical and instrumentation conduits.

- Installed  $\overline{DS} 3$ , a deep-shallow well located on the northern greenbelt. This well was screened between 60 - 64 feet.
- Installed approximately 200 feet of extraction piping along the facility's northern and western fencelines.

**Construction Days:** Rain Delay Days:

14

From:

Sent:

Gomez_Mariano October 30, 1998 10:16 AM

To:

'JSHER@tnrcc.state.tx.us(E-mail)"; 'franke.ernest@epamail.epa.gov'

Cc:

Subject:

Kovski_John; Gomez_Mariano ITS - Daily Status report for 10/25/98

# The following was accomplished on 10/24/98:

Installed two well vaults (SE-2 and SZE -7) in front of Affordable Communications. It was not necessary to lower the casing for SE-2.

Installed approximately 80 feet of extraction piping and associated electrical and instrumentation

conduits. All pipes and conduits were

Completed the well vault concrete pad for SZE-7. This completion included the installation of the ring and cover.

Construction Days:

26 14

Rain Delay Days: Total Days: 40

From:

Gomez_Mariano

Sent:

October 30, 1998 10:21 AM

To:

'JSHER@tnrcc. state. tx. us (E-mail)'; 'franke.ernest@epamail.epa.gov'

Cc:

Kovski_John; Gomez_Mariano

Subject:

FW: ITS - Daily Status report for 10/25/98

### The following was accomplished on 10/25/98:

Installed two well vaults (SE-2 and SZE -7) in front of Affordable Communications. It was not necessary to lower the casing for SE-2.

Installed approximately 80 feet of extraction piping and associated electrical and instrumentation

conduits. All pipes and conduits were

Completed the well vault concrete pad for SZE-7. This completion included the installation of the ring and cover.

Construction Days: Rain Delay Days:

Total Days:

From:

Gomez Mariano

Sent:

October 30, 1998 10:31 AM

To:

'JSHER@tnrcc. state. tx. us (E-mail)'; 'franke.ernest@epamail.epa.gov'

Cc:

Subject:

Kovski_John; Gomez_Mariano ITS - Daily Status report for 10/26/98

The following was accomplished on 10/25/98: The following was accomplished on 10/26/98

Developed four monitoring wells (MW-31, DS-3, MW-28, MW-29).

Installed approximately 110 feet of extraction piping and associated electrical and instrumentation conduits along David Street.

Completed the well vault concrete pad for SE-1. This completion included the installation of the ring and cover.

Construction Days: Rain Delay Days: Total Days: 41 27

From:

Gomez_Mariano

Sent:

To:

November 02, 1998 8:26 AM 'JSHER@tnrcc. state. tx. us (E-mail)'; 'franke.ernest@epamail.epa.gov'

Cc:

Kovski_John: Gomez_Mariano

Subject:

ITS - Daily Status Report for 10/27/98

### The following was accomplished on 10/27/98

- Constructed concrete well pads for monitoring wells MW - 28, MW - 29, DS - 3 and DS - 4.

Developed Deep-Shallow monitoring well DS - 4 and Silty Zone Extraction Wells SZE - 6 and SZE - 8.
 Set HDPE well vaults on all wells except SZE - 6 and SZE - 8.

- Constructed concrete well pad for Shallow Extraction Well SE - 1 located on David Street. Seven HDPE well vaults were connected to the extraction piping system already in-place.
 Three compaction tests were performed with adequate results.

- One roll - off box containing concrete departed the site for disposal.

Construction Days: 28 Rain Delay Days:

Total Days:

From:

Sent:

To:

Gomez_Mariano November 02, 1998 8:33 AM 'JSHER@tnrcc. state. tx. us (E-mail)'; 'franke.ernest@epamail.epa.gov' Kovski_John; Gomez_Mariano ITS - Daily Status Report for 10/28/98

Cc:

Subject:

#### The following was accomplished on 10/28/98

14

Excavated trench and placed electrical conduits up to MCC building.
Set HDPE well vaults on wells SZE - 6 and SZE - 8. The casings for these wells were cut to required depth.
Collected soil samples for analysis from the drums containing drill cuttings.
Collected a wipe sample for analysis from the extraction piping removed.

Construction Days:

Rain Delay Days: Total Days:

From:

Gomez_Mariano

Sent:

To:

Cc:

Subject:

November 02, 1998 8:43 AM
'JSHER@tnrcc. state. tx. us (E-mail)'; 'franke.ernest@epamail.epa.gov'
Gomez_Mariano; Kovski_John
ITS - Daily Status Report for 10/29/98

The following was accomplished on 10/29/98

Completing backfilling the alleyway located between the facility and the carpet reseller.
Completed connecting all HDPE well vaults with the extraction piping system.
Cut forms for the new 54" concrete well pads.

Construction Days: Rain Delay Days: Total Days: 4

30

From:

Gomez_Mariano

Sent:

To:

Cc:

October 02, 1998 11:20 AM
'franke.ernest@epamail.epa.gov'; 'jsher@tnrcc.state.tx.us'
Kovski_John; Gomez_Mariano

Subject:

Daily Status Report for 30 September 1998

The following was accomplished on 30 September 1998:

Installed MW-29, a shallow aguifer monitoring well.

235 feet of trench was excavated to accommodate the extraction piping and associated

conduits.

175 feet of electrical and instrumentation conduits were laid out.

5 subsurface soil samples were collected from the area around SZE-5 for PCB analysis.

The samples were delivered to the laboratory for 24-hour turnaround service.

**Construction Days** Weather Delay Days Total Days 19

Jennifer Dahike Project Secretary - Houston (713) 914-6494

From:

Sent:

To:

Dahlke_Jennifer
October 12, 1998 3:16 PM
'jsher@tnrcc.state.tx.us'; 'franke.ernest@epamail.epa.gov'
Kovski_John; Gomez_Mariano; Dahlke_Jennifer
Daily Status Report for 7 October 1997

Due to the soggy field conditions no work took place at the site.

Cc:

Subject:

The following was accomplished on 7 October 1998:

**Construction Days:** Rain Delay Days: Total Days:

15

10 25

Mariano Gomez Radian International LLC

From:

Sent:

To:

Dahlke_Jennifer
October 12, 1998 3:22 PM
'jsher@tnrcc.state.tx.us'; 'franke.ernest@epamail.epa.gov'
Kovski_John; Gomez_Mariano; Dahlke_Jennifer
Daily Status Report for 9 October 1998

Cc:

Subject:

The following was accomplished on 9 October 1998:

No field work occurred at the site. The site was allowed to dry.

15

Construction Days: Rain Delay Days: Total Days:

1 27

Mariano Gomez

Radian International LLC

From:

Gomez Mariano

Sent:

October 14, 1998 7:53 AM

To:

'jsher@tnrcc.state.tx.us'; 'franke.ernest@epamail.epa.gov ' Kovski_John; Gomez_Mariano

Cc:

Subject:

ITS - Daily Status Report for 10/12/98

The following was accomplished on 10/12/98:

Approximately 80 feet of trenches were re-excavated. This process involved the removal of in-place electrical and instrumentation conduits, excavation, backfilling with clean sand and replacement of the electrical and instrumentation conduits.

Approximately 40 feet of double contained HDPE piping were fused, placed in the trench, and backfilled.

Three HDPE vaults were placed along the IH-610 feeder road.

The inner casing for deep shallow well DS-1 was completed.

**Construction Days:** 

16

Rain Delay Days:

12

Mariano Gomez

Radian International LLC

From:

Gomez_Mariano

Sent:

To:

October 16, 1998 1:07 PM
'franke.ernest@epamail.epa.gov '; 'jsher@tnrcc.state.tx.us'
Gomez_Mariano; Kovski_John
ITS - Daily progress repoort for 10/14/98

Cc:

Subject:

The following was accomplished on 10/14/98:

Placed approximate 230 feet of leak detection piping within the trench area. Assembled approximately 60 feet of 1 X 2 dual containment HDPE piping. Backfilled approximately 150 feet of trench with sand and previously excavated material. Performed pressure test on the secondary containment piping system within Group A.

18 12 Construction Days: Rain Delay Days: Total Days: 3

From:

Gomez Mariano

Sent:

October 16, 1998 1:42 PM

To:

'franke.ernest@epamail.epa.gov'; 'jsher@tnrcc.state.tx.us'

Cc:

Gomez_Mariano; Kovski_John

Subject:

ITS - Daily progress repoort for 10/15/98

The following was accomplished on 10/15/98:

Completed welding HDPE piping for Group A and Group B wells. The secondary containment for the leak detection for Group B wells has been installed.

A pressure test for Group B leak detection and primary piping was performed as described in specifications. Both pressure tests were successful.

Backfilled open trenches along feeder road. Trenches were backfilled and compacted in areas that do not need access by the electricians. No backfilling has taken place around the well vaults.

Two sets of compaction tests were performed with favorable results

Construction Days:

19

Rain Delay Days:

12

From:

Sent:

To:

Gomez_Mariano
October 21, 1998 7:48 AM
'franke.emest@epamail.epa.gov'; 'JSHER@tnrcc. state. tx. us (E-mail)'
Kovski_John; Gomez_Mariano
ITS - Daily Status Report for 10/19/98

Cc:

Subject:

The following was accomplished on 10/19/98:

Heavy weekend rains caused flooding throughout the site. Contractor crew pumped water out of trenches for a number of hours.

Construction Days: Rain Delay Days: Total Days: 34

21 13

From:

Gomez_Mariano

Sent:

To:

October 21, 1998 7:48 AM
'JSHER@tnrcc. state. tx. us (E-mail)'; 'franke.ernest@epamail.epa.gov'
Kovski_John; Gomez_Mariano
ITS - Daily Status report for 10/20/98

Cc:

Subject:

The following was accomplished on 10/20/98:

Heavy rains continued exacerbating flooding throughout the site. Contractor crew pumped water out of trenches for a number of hours.

Construction Days:

21

Rain Delay Days: Total Days: 35

14

From:

Sent:

To:

Gomez_Mariano October 27, 1998 8:50 AM 'JSHER@tnrcc.state.tx.us(E-mail)'; 'franke.ernest@epamail.epa.gov' Kovski_John; Gomez_Mariano RE: ITS - Daily Status report for 10/22/98

Cc:

Subject:

#### The following was accomplished on 10/22/98:

Completed the concrete pad for MW - 27.

23 14

Developed MW -32 and SZE -9.

Installed approximately 80 feet of extraction piping and associated electrical and instrumentation conduits along Affordable Communication eastern fenceline.

Construction Days: Rain Delay Days: Total Days: 37

Page 1

From:

Gomez_Mariano

Sent:

October 26, 1998 6:11 PM

To:

'JSHER@tnrcc.state.tx.us(E-mail)"; 'franke.ernest@epamail.epa.gov' Kovski_John; Gomez_Mariano; Charles_Robin FW: ITS - Daily Status report for 10/23/98

Cc:

Subject:

#### The following was accomplished on 10/24/98:

Placed approximately 800 feet of electrical and instrumentation conduits.

- Installed DS 3, a deep-shallow well located on the northern greenbelt. This well was screened between 60 - 64 feet.
- Installed approximately 200 feet of extraction piping along the facility's northern and western fencelines.

Construction Days:

25

Rain Delay Days:

14

From:

Sent:

Kovski_John May 20, 1999 12:06 PM

To:

Subject:

Lucchesi_Jessica FW: ITS - Daily Status report for 10/25/98

----Original Message---

From:

Gomez_Mariano

Sent:

October 30, 1998 9:17 AM

To:

'JSHER@tnrcc.state.tx.us(E-mail)"; 'franke.ernest@epamail.epa.gov' Kovski_John; Gomez_Mariano ITS - Daily Status report for 10/25/98

Cc: Subject:

The following was accomplished on 10/24/98:

Installed two well vaults (SE-2 and SZE -7) in front of Affordable Communications. It was not necessary to lower the casing for SE-2.

Installed approximately 80 feet of extraction piping and associated electrical and instrumentation

conduits. All pipes and conduits were

26

14

Completed the well vault concrete pad for SZE-7. This completion included the installation of the ring and cover.

Construction Days:

Rain Delay Days:

From:

Gomez Mariano

Sent:

October 30, 1998 10:31 AM

To:

'JSHER@tnrcc. state. tx. us (E-mail)'; 'franke.ernest@epamail.epa.gov' Kovski_John; Gomez_Mariano ITS - Daily Status report for 10/26/98

Cc:

Subject:

The following was accomplished on 10/25/98: The following was accomplished on 10/26/98

Developed four monitoring wells (MW-31, DS-3, MW-28, MW-29).

Installed approximately 110 feet of extraction piping and associated electrical and instrumentation conduits along David Street.

Completed the well vault concrete pad for SE-1. This completion included the installation of the ring and cover.

Construction Days:

27 Rain Delay Days: Total Days: 4 14

From:

Gomez Mariano

Sent:

November 02, 1998 8:26 AM

To:

'JSHER@tnrcc. state, tx. us (E-mail)'; 'franke.ernest@epamail.epa.gov'

Cc:

Kovski_John; Gomez Mariano

Subject:

ITS - Daily Status Report for 10/27/98

#### The following was accomplished on 10/27/98

Constructed concrete well pads for monitoring wells MW - 28, MW - 29, DS - 3 and DS - 4.
 Developed Deep-Shallow monitoring well DS - 4 and Silty Zone Extraction Wells SZE - 6 and SZE - 8.
 Set HDPE well vaults on all wells except SZE - 6 and SZE - 8.

- Constructed concrete well pad for Shallow Extraction Well SE - 1 located on David Street. - Seven HDPE well vaults were connected to the extraction piping system already in-place.

Three compaction tests were performed with adequate results.

- One roll - off box containing concrete departed the site for disposal.

Construction Days: 28 Rain Delay Days:

From:

Sent:

Gomez_Mariano November 02, 1998 8:33 AM

To:

'JSHER@tnrcc. state. tx. us (E-mail)'; 'franke.ernest@epamail.epa.gov'

Cc:

Subject:

Kovski_John; Gomez_Mariano ITS - Daily Status Report for 10/28/98

#### The following was accomplished on 10/28/98

Excavated trench and placed electrical conduits up to MCC building.
 Set HDPE well vaults on wells SZE - 6 and SZE - 8. The casings for these wells were cut to required depth.
 Collected soil samples for analysis from the drums containing drill cuttings.

- Collected a wipe sample for analysis from the extraction piping removed.

Construction Days:

Rain Delay Days:

14

From:

Sent:

To:

Gomez_Mariano November 02, 1998 8:43 AM 'JSHER@tnrcc. state. tx. us (E-mail)'; 'franke.ernest@epamail.epa.gov' Gomez_Mariano; Kovski_John ITS - Daily Status Report for 10/29/98

Cc:

Subject:

#### The following was accomplished on 10/29/98

Completing backfilling the alleyway located between the facility and the carpet reseller.
Completed connecting all HDPE well vaults with the extraction piping system.
Cut forms for the new 54" concrete well pads.

Construction Days:

30 14

Rain Delay Days: Total Days: 4



APPENDIX D
WRS Daily Reports

(EVES)	•	•	DAILY P	RODU	CHON	REPORT		Tuesday	REPORT DATE 8-Sep-98	
ORD	XER NO.		TITLE AND LOCATION		Sol-Lynn Si	ite		REPORT NO.	ачерчи	
	4412-98-4	0200			n, Texas			1		
WRS JOB NO.	4412-90-4	0290	L		PROJECT MANAG			<u> </u>		
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WEATHER-AM	<del></del>				TEMPERATURE-					
WEATHER-PM	Rain			TEMPERATURE-PM			90	mion.		
	WESTINGHOUSE / SUBCONTR/	ACTOR WORKFORCE					TION AND DESCRI WORK PERFORM			
NUMBER	TRADE	HOURS	EMPLO	YER				ed for Radia		
1	Project Manager	-8	WRS					d onsite @ 9		
		8	WRS					phone syste		
	HS/QC Officer	- <del></del>	VVNS	-				r & Light to		
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					at the site	today, drilli	ng Will begii	n tomorrow i	morning.	
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TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY	MEETING HE	LD THIS DATE?		WERE THERE AND	LOST TIME ACCEDE	ENTS THIS DATE?	
SITE THIS DAT	E	16	1							
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START OF PROJECT 16		101	HIS REPORT			<u> </u>	THIS REPORT	····		
			PROJECT SA	AMPLE I	LOG					
	DESCRIPTION	SOIL	WPE	CONCRETE	WATER	OTHER		COMMENTS		
s ca	LECTED THIS DATE:									
PREVIOUS CL	MULATIVE TOTAL:									
TOTAL SAMPL	ES COLLECTED:									

#### PROJECT QUANTITY SUMMARY REPORT DATE Tuesday 8-Sep-98 (Please write in catagories no specified) UNIT OF QUANTITY PREVIOUS CURRENT PROJECT MEASURE THIS DATE CUMULATIVE TOTAL TOTAL **DESCRIPTION** TRENCH EXCAVATED FEET FEET TRENCH BACKFILLED **FEET** HOPE PIPE REMOVED EACH VAULTS REMOVED EACH WELLS INSTALLED FEET HDPA PIPE INSTALLED EACH VAULTS INSTALLED ٠, CUYD IMPORTED MATERIAL DRUM WELL CUTTINGS USED TODAY PREVIOUS USE TOTAL USE EST. REMOVAL REMAIN ON PROJECT MATERIAL LIST DATE (EACH) (DAYS) (DAYS) SITE PPE N/Α N/A VISQUEEN NΑ N/Α **DRUMS** NΑ N/A BARRICADE TAPE N/Α N/A HDPE PIPE N/A NΑ PRE-CAST VAULTS N/A NΑ NA N/A NA NΑ NA N/Α NΑ NA NA NA

PROJECT QUANTITY SUMMARY							
	(continued)			Tuesday	8-Sep-88		
SP MG NO. EQUIPMENT / MATERIAL RECEIVED TODAY TO		IN-JOB	<u>.                                    </u>	COMMENTS			
Refer to daily cost summary sheets atta	ched.						
		ļ			· <u></u>		
PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL.		
	(EACH)	(DAYS)	(DAYS)	DATE	DATE		
CREWTRUCK	1	· ·	1	8-Sep-98			
RENTAL CAR	1		1	8-Sep-98			
OFFICE TRAILER	1		11	8-Sep-98			
BOXTRUCK	1		1	8-Sep-98			
MINI EXCAVATOR							
RUBBER TIRE LOADER							
EXCAVATOR							
COMPACTOR							
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			REPORT DATE
	LOCATION AND DESCRIPTION OF DEFICIENCES		
	(Materials, Equipment, Salety, and/or Workmanship)		
	Nothing to report.		
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	PROJECT STATUS REPORT		
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	Richard Strand Charles D.	Thomas	DATE
fallente (	WESTINGHOUSE REMEDIATION SERVICES, INC. RADIAN I	NTERNATIONAL, LLC	

Ξ,

			DAILY P	RODU	CTION	REPORT			REPORT DATE	
			<u> </u>					Wednesday	9-Sep-06	
DEL	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	ite⊷	(	REPORT NO.		
WRS JOB NO.	4412-98-40	290		Housto	ıston, Texas 2					
CLIENT NAME			• • •		PROJECT MANAG				ł	
Texas Na	tural Resource Conse	rvation Com	mission	<u></u>		Richard Stra				
WEATHER-AM	<del></del>				TEMPERATURE	W	80			
WEATHERPM	Rain		<del></del> .	TEMPERATURE-PM 90  LOCATION AND DESCRIF						
	WESTINGHOUSE / SUBCONTRA	CTOR WORKFORCE					WORK PERFORM			
NUMBER	TRADE	HOURS	EMPLO	YER			am, Best Dr			
1	Project Manager	. 10.5	WRS				te. A safety rillers setup			
1	HS/QC Officer	10.5	WRS				ect and bega		• 1	
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		7					t to the yard			
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SITE THIS DAT	<del></del>	21	<u></u>					<b>-</b>		
	TOTAL OF WORK PREVIOUS REPORT	16	[] YES	DX J NO		•	I JAES	рд но		
TOTAL WORK	HOURS FROM		IF "YES", ATTACH COR	Y OF MEETI	NG RECORD		IF "YES", ATTACH C	COMPLETED OSHA	PORM	
START OF PROJECT 37		топ	IS REPORT			то	THIS REPORT			
			PROJECT SA	MPLE L	.og					
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s sca	LECTED THIS DATE:				·					
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TOTAL SAMPLE	ES COLLECTED:		<u> </u>							

## (WPS)

### PROJECT QUANTITY SUMMARY

		(Please write in categorie	es no specified)			Wednesday	9-8ep-88
	UNIT OF	QUANTITY	PRE	vious	C	JRRENT PROJE	ा 🚪
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	•
TRENCH EXCAVATED	FEET						
TRENCH BACKFILLED	FEET	<u>-</u>				<u>, .</u> _	
HDPE PIPE REMOVED	FEET						
/AULTS REMOVED	EACH						
MELLS INSTALLED	EACH	2				2	- u _a
IDPA PIPE INSTALLED	FEET						
/AULTS INSTALLED	EACH						
MPORTED MATERIAL	CUYD						
WELL CUTTINGS	DRUM	8				8	
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			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATER	RIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE		<u></u>				N/A	N/A
VISQUEEN						N/A	N/A
DRUMS						N/A	N/A
BARRICADE TAPE			8_		8	N/A	N/A
HDPE PIPE						N/A	N/A
PRE-CAST VAULTS						N/A	N/A
					<u> </u>	N/A	N/A
						N/A	N/A
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(WAS)	PROJECT QUA		<u> </u>	Y		REPORT DATE
		(continued)			Wednesday	9-Sep-88
SPE VG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		IN_JOB		COMMENTS	
	Refer to daily cost summary sheets attache	d.				
	_					
` <u></u>	PROJECT EQUIPMENT LIST	LISED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL.
	THOSE CASE MEN SO.	(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK						
RENTAL CAR		1	_1	2	8-Sep-98	
OFFICE TRAILER		1	11	2	8-Sep-98	
BOXTRUCK		1	1 .	2	8-Sep-98	
RADIO		3	3	6	8-Sep-98	
·		11		1	8-Sep-98	
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					REPORT DATE
	LOCATIO	ON AND DESCRIPTION OF	DEFICIENCIES		1
		Materials, Equipment, Safety, and/or Wo	rkmenship)		
		Nothing to rep	ort -		
					•
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	PROJ	ECT STATUS REPO	PRT		
HANGE IN CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER _		
			·		
ID ITEM	DESCRIPTION OF CHAI	NGE		QUANTITY CHANGE	NEW TOTAL
At Radians author	ization the sand pack for the	well has changed from	n		
	-40 mesh. See spec 02150 2				
will be used in the					
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<del></del>			<del></del>	·	<del>                                     </del>
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	reading level of 25ppm on the			rmined that no levels of	organic vanor
	g zones of the driller workers.	O VIVI HOIH HIE WEH CU	tungs. It was dete	illuned that no levels of	Organic vapor
	•				
	,	•			
<u> </u>					
	ilgate Safety Meeting ality Control Report		•		
120	1-	/	110-	_	_
Sint			119	1)	9/10/98
1 - 200	Richard Strand		harles Defi		/-/-
	JICHAIG SHANG DEMENIATION SERVICES ING	<del></del>	PADIAN IN	101115	4

			DAILY P	RODU	CTION I	REPORT	·	Themselve	REPORT DATE			
080			TITLE AND LOCATION		Sol-Lynn Si	te	<del></del>	Thursday REPORT NO.	10-Sep-86			
		200			_			3	. [			
WRS JOB NO.	4412-98-40	290	<u> </u>		n, Texas PROJECT MANAG			<u> </u>				
cuent NAME Texas Nat	tural Resource Conse	rvation Com	mission			Richard Stra	and					
WEATHER-AM	Rain				TEMPERATURE-A		80					
	Rain				TEMPERATURE-PM 80							
WEATHER-PM	WESTINGHOUSE / SUBCONTRA	TOP WORKEDED	<u> </u>		LOCATION AND DESCRIPTION							
	112011101100027000011101		_			OF	WORK PERFORM	<b>ED</b>				
NUMBER	TRADE	HOURS	EMPLO	YER	Arrived or	site @ 5:45	am. The cr	ew arrived t	his early			
1	Project Manager	8	WRS				SZE-7 which					
1	HS/QC Officer	_ 8	WRS				ed and the c					
							rew decon	-				
							aining well		·· ·			
		_	<del> </del>		pad area.	The drill cre	ew left the s	ite at appro	cimately			
					12:00 pm.	•						
			1				was held in					
							WRS. Radia		_			
	<u> </u>	_	<del>                                     </del>				s of the mee					
		_	<u> </u>		1		ved onsite a th fence of t	-				
	<u> </u>						ts for the pr		ea anu			
							red the site		the day at			
					1	ue to heavy						
					RAIN DAY				!			
					KAIN DAT		•					
			<del></del>									
					<del></del>	,,, <u> </u>	*****					
						PER	DIEM TOTA	ALS				
						(in	cluding weekend	ls)				
						USED TODAY		1	•			
						PREVIOUS REPOR	π	2	·			
						START OF PROJEC	भ	3				
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY	MEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?			
SITE THIS DAT	E	16	1						j			
1	TOTAL OF WORK		[]YES	[X] NO			[ ]YES	рд но				
·	PREVIOUS REPORT	37				•						
TOTAL WORK HOURS FROM IF		IF YES", ATTACH CO		IG RECORD	•		XMPLETED OSHA I THIS DEDOUT	FORM				
SIACI OF PRO	~			HIS REPORT			. 10	THIS REPORT				
	DESCRIPTION		PROJECT SA			OTHER	<u> </u>	COMMENTS				
\$ COL	LECTED THIS DATE:	SOIL	YVIPE	CONCRETE	WATER	OTHER		COMMENTS				
	MULATIVE TOTAL:	_										
TOTAL SAMPLE	ES COLLECTED:											

## PROJECT QUANTITY SUMMARY

		(Please write in categorie	es no specified)			Thursday	10-8ep- <b>8</b> 8
	UNIT OF	QUANTITY	PRE	viords	a	URRENT PROJE	CT (
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	<u> </u>
RENCH EXCAVATED	FEET						
TRENCH BACKFILLED	FEET						
IDPE PIPE REMOVED	FEET						
VAULTS REMOVED	EACH						
AMELLS INSTALLED	EACH	1	2			3	
HDPA PIPE INSTALLED	FEET						
VAULTS INSTALLED	EACH						
MPORTED MATERIAL	CUYD	27					
WELL CUTTINGS	DRUM	4	8		12		
		•					
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<u>, , , , , , , , , , , , , , , , , , , </u>	<del>-   -  -</del>					<del>.</del>	
	<del></del>		USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	ECT DEMON
PROJECT MAT	FRIALLIST		(EACH)	(DAYS)	(DAYS)	SITE	EST. REMOV/
PPE	LIVIAL LIOT		(EAGI)	(DATS)	(LK13)	N/A	N/A
	· · · · · · · · · · · · · · · · · · ·	· ···	<del>-  </del> -			† <del></del>	
VISQUEEN DOLINAS	<del></del>	7:			40	N/A	N/A
DRUMS TARE	<del></del>	<del></del>	4	8	12	N/A	N/A
BARRICADE TAPE	<u> </u>		<del>                                     </del>	`	<del></del>	N/A	N/A
HDPE PIPE			<del></del>			N/A	N/A
PRE-CAST VAULTS					·	N/A	N/A
				-		N/A	N/A
	<u> </u>		<del> </del>			N/A	N/A
						N/A	N/A
			<del></del>	<del> </del>		N/A	N/A
				1	<u> </u>	N/A	N/A

PROJECT QUANTITY SUMMARY							
		(continued)			Thursday	10-Sep-88	
SP WG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE I	NCORPORATED	INJOB		COMMENTS		
	Refer to daily cost summary sheets attache	d.					
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		<del></del>	<del></del>				
P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL	
		(EACH)	(DAYS)	(DAYS)	DATE	DATE	
CREW TRUCK	<u> </u>			<del></del>			
RENTAL CAR		1	2	3	8-Sep-98		
OFFICE TRAILER		11	2	3	8-Sep-98		
PORTABLE TOILET		1	2	3	8-Sep-98		
RADIOS	·	3	6	9	8-Sep-98	<del> </del>	
ORGANIC VAPOR MON	NITOR	1	2	3	8-Sep-98		
BOXTRUCK		1	2	3	8-Sep-98		
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· ·		<u> </u>					
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· · · · · · · · · · · · · · · · · · ·					REPORT DATE
	LOCATIO	ON AND DESCRIPTION OF	DEFICIENCIES		
		Materials, Equipment, Safety, and/or Wo	irkmenship)	,	(
		Nothing to rep			
		•			
<del></del>	PRO	ECT STATUS REPO	PT		···=
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HANGE IN CONTRACT:	☐ CHANGE ORDER	EXTRA WORK	OTHER _		
	C of barde ouper		MOLUEY -		
о гтем	DESCRIPTION OF CHAI	NGF	<del></del>	QUANTITY CHANGE	NEW TOTAL
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EMARKS: (INCLUDE DIRECTION	IS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAF	FETY INSPECTIONS, AND UTHER PER	RINENT INFORMATION)	<u> </u>	
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Attachments: W	DO Tailanta Calata Nasaka -			<del></del>	. <u></u>
	RS Tailgate Safety Meeting RS Quality Control Report				
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1/30/			A	JON )	<del></del> _
	Richard Strand		14170	bape L	4
· WESTINGHO	USE REMEDIATION SERVICES, INC	<b>3</b> .	RADIAN IN	TERNATIONAL, LLC	

WES			DAILY PR	RODUCTIO	N REPORT	<u> </u>		REPORT DATE	
							Friday		
XELLEX R	DER NO.		TITLE AND LOCATION	Sol-Lyni	n Site	1	REPORT NO.		
VRS JOB NO.	4412-98-40	0290		Houston, Texas	on, Texas		44		
XLENT NAME				PROJECT M	PROJECT MANAGER				
Texas Na	atural Resource Conse	ervation Com	mission		Richard Str				
VEATHER-AM	Rain		<u> </u>	TEMPERATU	TEMPERATURE-AM 80				
VEATHER-PM	Rain Rain			TEMPERATU		80			
	WESTINGHOUSE / SUBCONTRA	CTOR WORKFORCE	<b>5</b>			ATION AND DESCRI F WORK PERFORM			
LIMBER	TRADE	HOURS	EMPLOYI	R No wor	k was comple	ted on the si	te today due	e to the	
1	Project Manager		WRS		l storm.				
1	HS/QC Officer	8	WRS	RAIN D	AY		•		
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	<del> </del>				(1	ncluding weekend	s)		
		_	ļ		USED TODAY		1		
					PREVIOUS REPO	RT	4		
	<u> </u>		<u> </u>		START OF PROJE	ect ,	5	,	
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY ME	ETING HELD THIS DATE	17	WERE THERE ANY	LOST TIME ACCIDE	ENTS THIS DATE?	
SITE THIS DAT	Е	8	_						
	TOTAL OF WORK	53	[]YES	(X) NO		[ ]YES	[X] <b>HO</b>		
	I PREVIOUS REPORT		ENER ATTACHOR	OF MEETING DECORD	•	EREN ATTACLE	<b>215</b> 1 2211	COPI	
START OF PR		61	IF "YES", ATTACH COPY	REPORT		IF "YES", ATTACH O	THIS REPORT		
<del></del>									
	DESCRIPTION	SOIL	PROJECT SAL	MPLE LOG	₹ TOTHER	T	COMMENTS		
SAL	LLECTED THIS DATE:						William II O		
	MULATIVE TOTAL:					<del> </del>			
<del>-</del> -	LES COLLECTED:		<del> </del>			<del>                                     </del>			
CIAL SAMA	ES CALLED ES.			<u></u>		<u> </u>			

## (BFRS)

## PROJECT QUANTITY SUMMARY

BTS	•		,,,,,,,,,,,		-		REPORT UNI	
(Please write in categories in			es no specified)	<del></del>		Friday		
	UNIT OF	QUANTITY	PRE	PREVIOU6		CURRENT PROJECT		
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL	TOTAL			
RENCH EXCAVATED	FEET						·	
TRENCH BACKFILLED	FEET					<del></del>	<del></del>	
HOPE PIPE REMOVED	FEET				<del></del>			
/AULTS REMOVED	EACH	<u> </u>						
WELLS INSTALLED	EACH		3			3		
IDPA PIPE INSTALLED	FEET							
/AULTS INSTALLED	EACH				==			
MPORTED MATERIAL	CUYD							
MELL CUTTINGS	DRUM		12			12		
						-		
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				<del></del>		<u>i =</u>	<del>r</del>	
			ď	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOV	
PROJECT MATI	ERIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE	
PPE		<u></u>		· ·		N/A	N/A_	
VISQUEEN	· · · · · · · · · · · · · · · · · · ·					N/A	N/A	
DRUMS				12	12	N/A	N/A	
BARRICADE TAPE			<u> </u>		N/A	N/A		
HDPE PIPE		<del> </del>			N/A	N/A_		
PRE-CAST VAULTS						N/A	N/A	
						N/A	N/A	
				·		N/A	N/A	
<del></del>		<del></del>				N/A	N/A	
						N/A	N/A	
						N/A	N/A	

REPORT DATE (continued) IG NO. EQUIPMENT / MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB. COMMENTS Refer to daily cost summary sheets attached. USED TODAY PREVIOUS USE TOTAL USE PROJECT EQUIPMENT LIST ARRIVAL REMOVAL (EACH) (DAYS) (DAYS) DATE DATE **~** CREW TRUCK === 8<del>2 ap 3</del>8 RENTAL CAR 3 8-Sep-98 OFFICE TRAILER 3 4 8-Sep-98 PORTABLE TOILET 1 3 4 8-Sep-98 PADIOS 3 9 12 8-Sep-98 ORGANIC VAPOR MONITOR 8-Sep-98 BOXTRUCK 1 3 4 8-Sep-98

·.	_				REPORT DATE
· · · · · · · · · · · · · · · · · · ·					
	LOCATIO	ON AND DESCRIPTION OF	DEFICIENCIES		
		(Materials, Equipment, Safety, and/or Wo		<u></u>	
		Nothing to repo	ort	<del>-</del>	•
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	PRO	JECT STATUS REPO	RT		
	FNC	LOI GIATOUNEFO			
HANGE IN CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER		
A PARAGE IIA CONTRACT.	CHANGE UNDER	□ EXTHA WORK	□ OTHER □		
ю птем	DESCRIPTION OF CHA	ANGE		QUANTITY CHANGE	NEW TOTAL
DITEM	DESCRIPTION OF CHA	wc		GOANTITY CHANGE	NEW TOTAL
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	FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SA	NFETY INSPECTIONS, AND OTHER PEP	TINENT INFORMATION		
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	•	<b>N</b>			
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Attachments: WRS	Tailgåte Safety Meeting				
, WRS	Quality Control Report		•		
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1214	T. C		- /	1004	
	Richard Strand	<del></del>	M	ho Conel	
• • • •	HICHARD STRAND	-	C HEELL W	VIII ANILY	

			DAILY P	RODU	CTION	REPORT	,	Manday	REPORT DATE	
DEL DRO	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	ite-		Monday REPORT NO.	14-Sep-98	
	4412-98-402	200		Houston	ton, Texas			5		
AIRS JOB NO.	44 12-50-402	250	<u> </u>		PROJECT MANAG			<u></u>		
	tural Resource Conser	vation Com	mission		-ROOLOI MAJERG	Richard Stra	and	•	ľ	
WEATHER-AM	Partly Cloud				TEMPERATURE-A		75			
	Rain	21 CONT				mid 80's				
NEATHER-PM	WESTINGHOUSE / SUBCONTRACT	TOP MINEYEODOS	<u> </u>		TEMPERATURE		TION AND DESCRI	PTION		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						WORK PERFORM			
YUMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite ar	nd waited fo	r Radian to	open the	
1	Project Manager	8	WRS					nd then WRS		
		<u> </u>	· · · · · · · · · · · · · · · · · · ·		safety and	production	meeting. 1	he drill crev	v began	
1	HS/QC Officer	8	WRS		to decon t	he well casi	ing for well	SZE-6. At 8:	20 the	
1	Operator	12	WRS					to drill well		
1	Contract Labor	6						n Strand that		
		<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·					nowever due		
		-	<u> </u>		muddy conditions and heavy rain (began @ 9:00 am the dill was shut down for the day.					
								<u>/.                                    </u>		
								to the alley		
			<u> </u>							
	<u> </u>	<del></del>			the treatment plant. Access was obtained at noon. The technician began grubbing. WRS operator and					
		<u> </u>			mini-excavator arrived on site at 2:30pm. All work stoped due to rains @ 3:30. WRS and Radian secur					
			<u></u>							
				the site and left at 5:00pm.						
	<u> </u>	· <b>-</b>			RAIN DAY	ı				
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		<del> </del> -				DED	DIEM TOTA	AI S		
	<u> </u>									
7 -	<u> </u>		<b></b>			(in	cluding weekend	is)		
						USED TODAY		3		
						PREVIOUS REPOR	π	5		
				_ ·		START OF PROJEC	ग	8		
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY I	MEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?	
SITE THIS DAT	Ē	34								
CUMULATIVE 1	TOTAL OF WORK		[]YE8	[X] NO			[ ]YES	рд но		
HOURS FROM	PREVIOUS REPORT	61				•				
TOTAL WORK HOURS FROM		95	IF "YES", ATTACH CO	PY OF MEETIN	IG RECORD			COMPLETED OSHA F	FORM	
START OF PRO	WECT	95	<u>пот</u>	US REPORT			то	THIS REPORT		
			PROJECT SA	MPLE L	OG					
	DESCRIPTION	SOIL	WPE	CONCRETE	WATER	OTHER		COMMENTS		
s/ co.	LECTED THIS DATE:	<b></b>								
PREVIOUS CU	MULATIVE TOTAL:									
TOTAL SAMPL	ES COLLECTED:				<u> </u>					

# (BY/RS)

## PROJECT QUANTITY SUMMARY

(WAS)		(Please wills in categorie				Monday	14-Sep-63
	UNIT OF	QUANTITY		vio⊌s		URRENT PROJE	·····························
DESCRIPTION	MEASURE	THIS DATE	ł	CUMULATIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET						•
TRENCH BACKFILLED	FEET					· · · · · · · · · · · · · · · · · · ·	
HDPE PIPE REMOVED	FEET				_		
VAULTS REMOVED	EACH						
WELLS INSTALLED	EACH		3			3	
HOPA PIPE INSTALLED	FEET						
VAULTS INSTALLED	EACH						
IMPORTED MATERIAL	CUYD						
WELL CUTTINGS	DRUM		12			12	·
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			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVA
PROJECT MAT	ERIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
VISQUEEN						N/A	N/A
DRUMS				12	12	N/A	N/A
BARRICADE TAPE						N/A	N/A
HDPE PIPE						N/A	N/A
PRE-CAST VAULTS						N/A	N/A
			<u>.</u>	_		N/A	N/A
						N/A	N/A
						N/A	N/A
						N/A	N/A
						N/A	N/A

1 N. 1 A			<u></u>		<del></del>	REPORT DATE		
*:=		(continued)						
SP WG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE I		N JOB	COMMENTS				
·	Refer to daily cost summary sheets attached							
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RENTAL CAR		1	4	5	8-Sep-98			
OFFICE TRAILER		1	4	5	8-Sep-98			
PORTABLE TOILET		1	4	5	8-Sep-98			
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RADIOS	ONITOR	. 3		15	8-Sep-98			
ORGANIC VAPOR M	UNITOR	1	4	5	8-Sep-98			
BOXTRUCK		1	4	5	8-Sep-98			
MINI EXCAVATOR		1		1	14-Sep-98			
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Westinghouse Remediation Services, In	C.
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		(Materials, Equipment, Safety, and/or W	orkmenshin)		
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REMARKS: (INCLUDE DIRECTIONS F	ROM CLIENT, VISITORS, COMPLIANCE NOTICE	S, SAFETY INSPECTIONS, AND OTHER PE	RTINENT INFORMATION)		
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Attachments: WRS	Tailgate Safety Meeting				
	Quality Control Report				
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WESTINGHOLIS	SE REMEDIATION SERVICES	INIC	DADIANIA	ITERNATIONAL, LLC	

Texas Natural Resource Conservation Commission  Rechard Natural Resource Conservation Commission  Rechard Refin  Westherman Cloud/Rain  Westherman Rain  House Devicors Wiss and Radian arrived onsite at 7:00 am, then the Converse Resource Rain Rain arrived onsite at 7:00 am, then the Resource Rain Rain arrived onsite at 7:00 am, then the Resource Rain Rain arrived onsite at 7:00 am, then the Resource Rain Rain arrived onsite at 7:00 am, then the Resource Rain Rain Rain arrived onsite at 7:00 am, then the Resource Rain Rain Rain Rain Rain Rain Rain Rain	WTS			DAILY PR	ODUCTION	REPORT		,	REPORT DATE		
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1 Project Manager 8 WRS MRS Held the daily production and safety meeting.  1 HSQC Officer 8 WRS plping from well SE-5 to SZE-4. Crew removed 78 feet of pipe today. Rain caused a early end to the day. All plping from well SE-5 to SZE-4. Crew removed 78 feet of pipe today. Rain caused a early end to the day. All plping removed was placed in the decon pad. All plping removed was placed in the decon pad. All plping removed was placed in the decon pad. All excavations were properly filled in and all equipment was placed back in the compound. It was decided on that no work would be accomplished at the site for the rest of the week. All labor was released until Monday. Rich Strand and I will report to the Houston Office in the morning.  RAIN DAY  PER DIEM TOTALS (including weekends)  USES TODAY 1  PREVIOUS REPORT 8  STRANT OF PROJECT SAMPLE LOG  DESCRIPTION SOIL WARE CONCRETE WATER OTHER COMMENTS  PROJECT SAMPLE LOG  DESCRIPTION SOIL WARE CONCRETE WATER OTHER COMMENTS	_	WESTINGHOUSE / SUBCONTRAC	TOR WORKFORCE								
After the meeting the crew began to excavate the piping from well SE-5 to SZE-4. Crew removed 78 feet of pipe today. Rain caused a early end to the day, All 1 Contract Labor 6.5 Greenfield pipe removed was placed in the decon pad. All excavations were properly filled in and all equipment was placed back in the compound. It was decided on that no work would be accomplished at the site for the rest of the week. All labor was released until Monday. Rich Strand and I will report to the Houston Office in the morning.  RAIN DAY  PER DIEM TOTALS  [Including weekends]  USED TODAY  1 PREVIOUS REPORT  9 SUMA A JOS SAPETY MEETING HELD THIS DATE?  WAS A JOS SAPETY MEETING HELD THIS DATE?  WAS A JOS SAPETY MEETING HELD THIS DATE?  WERE THERE NAY LOST TIME ACCORDITS THIS DATE?  WERE THERE NAY LOST TIME ACCORDITS THIS DATE?  IT YES JOHN TO THIS PROVICE  1 YES JOHN TO THERE DOWN TO THIS PROVICE  PROJECT SAMPLE LOG  DESCRIPTION  SOIL WIFE CONCRETE WATER OTHER COMMENTS  PROJECT SAMPLE LOG  DESCRIPTION:  OCCUMENTS	VUMBER	TRADE	HOURS	EMPLOYER	WRS and	Radian arriv	ed onsite at	7:00 am, th	en the		
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RICH Strand and I will report to the Houston Office In the morning.  RAIN DAY  PER DIEM TOTALS  (Including weekends)  USED TODAY  1  PREVIOUS REPORT 8  START OF PROJECT 9  WAS A JOB SAFETY MEETING RECORD STRETHER DATE  TOTAL WORK HOURS ON JOB  STRETHE DATE  34.5  I] YES   X] NO   [] YES   X] NO  I] YES   X] NO  FYES', ATTACH COMPLETED OSHA FORM START OF PROJECT  PROJECT SAMPLE LOG  DESCRIPTION SOIL  WHE CONCRETE WATER OTHER COMMENTS  SOULECTED HIS DATE  COMMENTS  PROJECT SAMPLE LOG  DESCRIPTION SOIL  WHE CONCRETE WATER OTHER COMMENTS		<u> </u>	_								
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CUMULATIVE TOTAL OF WORK  HOURS FROM PREVIOUS REPORT  95  TOTAL WORK HOURS FROM  START OF PROJECT  DESCRIPTION  SOIL  WHE  CONCRETE  WATER  OTHER  COLLECTED THIS DATE:  PREVIOUS CUMULATIVE TOTAL:	TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY MEE	TING HELD THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?		
HOURS FROM PREVIOUS REPORT 95  TOTAL WORK HOURS FROM   IF "YES", ATTACH COPY OF MEETING RECORD   IF "YES", ATTACH COMPLETED OSHA FORM   START OF PROJECT 129.5 TO THIS REPORT TO THIS REPORT    PROJECT SAMPLE LOG  DESCRIPTION   SOIL   WIPE   CONCRETE   WATER   OTHER   COMMENTS    SAME COLLECTED THIS DATE:   PREVIOUS CUMULATIVE TOTAL:	SITE THIS DAT	E	34.5	]					ļ		
TOTAL WORK HOURS FROM START OF PROJECT  129.5  TO THIS REPORT  PROJECT SAMPLE LOG  DESCRIPTION  SOIL  WIPE CONCRETE WATER  COLLECTED THIS DATE:  PREVIOUS CUMULATIVE TOTAL:			0.5	[]YES	[X] NO		[ ]YES	[X] NO			
START OF PROJECT 129.5 TO THIS REPORT TO THIS REPORT  PROJECT SAMPLE LOG  DESCRIPTION SOIL WIPE CONCRETE WATER OTHER COMMENTS  SA COLLECTED THIS DATE:  PREVIOUS CUMULATIVE TOTAL:		<del></del>	95			•					
PROJECT SAMPLE LOG  DESCRIPTION SOIL WIPE CONCRETE WATER OTHER COMMENTS  SA COLLECTED THIS DATE:  PREVIOUS CLAMBILATIVE TOTAL:	100 5								FORM		
DESCRIPTION SOIL WIPE CONCRETE WATER OTHER COMMENTS  SA COLLECTED THIS DATE:  PREVIOUS CUMULATIVE TOTAL:								- 10,			
SA COLLECTED THIS DATE:  PREVIOUS CLIMILATIVE TOTAL:		DESCRIPTION	SOIL			OTHER	<u> </u>	COMMENTS			
PREVIOUS CLIMILLATIVE TOTAL:	SAMOO	·									
		· · · · · · · · · · · · · · · · · · ·									

Tuesday

## (SYRS)

### PROJECT QUANTITY SUMMARY

REPORT DATE

15-Sep-08

	UNIT OF	QUANTITY	PRE	vious	a	URRENT PROJE	ст
DESCRIPTION	MEASURE	THIS DATE	CUMULATIVE TOTAL		TOTAL		
TRENCH EXCAVATED	FEET	78				78	3
TRENCH BACKFILLED	FEET						
HIDPE PIPE REMOVED	HOPE PIPE REMOVED FEET 78			<u> </u>		. 78	
VAULTS REMOVED	EACH				 		
WELLS INSTALLED	EACH		3			3	3
HOPA PIPE INSTALLED	FEET						
VAULTS INSTALLED	EACH		<u> </u>				
IMPORTED MATERIAL	CU YD						
WELL CUTTINGS	DRUM		12	·		12	2
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	<u> </u>			<del></del>	<u> </u>		
	1		USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERIAI	L LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE					<del></del>	N/A	N/A
VISQUEEN						N/A	N/A
DRUMS				12	12	N/A	N/A
BARRICADE TAPE						N/A	N/A
HIDPE PIPE						N/A	N/A
PRE-CAST VAULTS						N/A	N/A
						N/A	N/A
						N/A	N/A
						N/A	N/A
						N/A	N/A
I — — — —					l	N/A	N/A

<i>9</i> (			·			REPORT DATE
		(continued)				
SP VG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE I	CORPORATED I	N JOB.		COMMENTS	
	Refer to daily cost summary sheets attached					
				•		
	Ī					
Р	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK		1	مر	18	2-005-34	
RENTAL CAR		1	5	6	8-Sep-98	
OFFICE TRAILER	1	6	7	8-Sep-98		
PORTABLE TOILET		1	5	6	8-Sep-98	
	<u> </u>	<del> </del>				
PADIOS		3	. 15	18	8-Sep-98	
ORGANIC VAPOR MO	NITOR	1	5	6	8-Sep-98	
BOXTRUCK	<del></del>	1	5	6	6-Sep-98	
MINI EXCAVATOR		1	1 1	2	14-Sep-98	
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· ·			REPORT DATE
	LOCATION AND DESCRIPTION OF DEFICIENCIES		
<del></del>	(Materials, Equipment, Safety, and/or Workmanship)  Nothing to report		<del></del> -
	Hotning to report		
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	PROJECT STATUS REPORT		
CHANGE IN CONTRAC	T. Callyon Copper Copper Copper		<del></del>
JANGE IN CONTRAC	T: CHANGE ORDER EXTRA WORK OTHER		
<del></del>			<del></del>
SED ITTEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
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REMARKS: (INCLUDE DIRE	CTIONS FROM CUENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT INFORMATION)		
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Attachments:	WRS Tailgate Safety Meeting		
	WRS Quality Control Report		
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1545,			· · · · · · · · · · · · · · · · · · ·
`	Richard Strand	rians borner	
WEOTHE	HOUSE DEMENDATION SERVICES INC. PADIAN IN	STERNATIONAL LIC	

		DAILY P	KODU	CTION	REPORT			REPORT DATE
		<u> </u>	<u> </u>	<u></u>		<u> </u>	Wednesday	16-Sep-98
		TITLE AND LOCATION		Sol-Lynn S	ite_		REPORT NO.	
4412-98-4029	0	L		n, Texas			7	
unal Daggers Co.	wa- a-	micai	)	PROJECT MANAG		and .		
tural Resource Conserva	auon Com	mssion			Richard Stra			· · · · · · · · · · · · · · · · · · ·
Rain				TEMPERATURE-		75		<del></del>
Rain	D.L. Control			TEMPERATURE 4		mid 80's	DTICN	
WESTINGHOUSE / SUBCONTRACTO		-			OF	WORK PERFORM	ED	
TRADE	HOURS	EMPLO	YER		at the site du			l myself
Project Manager	8	WRS			ng at the Ho	uston office	on a few	
HS/QC Officer	2	WRS		<u>specificat</u>	ion issues.			
Operator				RAIN DAY	-			
Contract Labor								
Contract Labor	<u> </u> 			}				
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		<del> </del>			PER	DIEM TOTA	ALS	-
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					USED TODAY		1	:
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					START OF PROJEC		10	
uks on Joe		WAS A JOB SAFETY	MEETING HEL	D THIS DATE?	<del></del>	WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DAYE?
	10	1						
AL OF WORK EVIOUS REPORT	129.5	[]YES	ÎX ] NO			[ ]YES	DQ NO	
JRS FROM		IF "YES", ATTACH CO	PY OF MEETIN	IG RECORD		IF "YES", ATTACH C	COMPLETED OSHA F	FORM
ਸ <u></u>	139.5	<u> </u>	HIS REPORT			то	THIS REPORT	
		PROJECT SA						
SCRIPTION	SOIL	WPE	CONCRETE	WATER	OTHER		COMMENTS	
TED THIS DATE:		<u> </u>					· <del></del> -	
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OLLECTED:		<u> </u>	<u> </u>				<del></del>	

### (FES)

### PROJECT QUANTITY SUMMARY

		(Please write in categorie	s no specified)			Wednesday	18-3ep-98
	UNIT OF	QUANTITY		vious		JRRENT PROJEC	ा ।
DESCRIPTION	MEASURE	THIS DATE	•	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		78			78	
TRENCH BACKFILLED	FEET			_			
HDPE PIPE REMOVED	FEET		78	<u>-</u>		78	
VAULTS REMOVED	EACH						
WELLS INSTALLED	EACH		3			3	
HDPA PIPE INSTALLED	FEET					<u> </u>	
VAULTS INSTALLED	EACH	<u> </u>					·
IMPORTED MATERIAL	CUYD						
WELL CUTTINGS	DRUM	<u> </u>	12			12	•
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			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERIA	L LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A_	N/A
VISQUEEN	<del></del>					N/A	N/A
DRUMS				12	12	N/A	N/A
BARRICADE TAPE	···········				· <u>-</u>	N/A	N/A
HDPE PIPE						N/A	N/A
PRE-CAST VAULTS	<del></del>					N/A	N/A
		<del> </del>		-		N/A	N/A
	<u> </u>					N/A	N/A
						N/A	N/A
			ļ <u> </u>			N/A	N/A
						N/A	N/A

						REPORT DATE
	<u></u>	(continued)		<del></del>		
SPE VG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY		I JOB-		COMMENTS	<u>·</u>
	Refer to daily cost summary sheets att	ached.				
			·			
				<u></u> ,	<del></del>	
<u> </u>	<u> </u>					
P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
·		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK						
RENTAL CAR		1	6	7	8-Sep-98	
OFFICE TRAILER		1	7	8	8-Sep-98	
PORTABLE TOILET		1	6	7	8-Sep-98	,
PADIOS		3	18	21	8-Sep-98	
ORGANIC VAPOR MO	1	6	7	8-Sep-98		
BOX TRUCK		1	6	7	8-Sep-98	
MINI EXCAVATOR	·	1 .	2	3.	14-Sep-98	
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	LOCATION AND DESCRIPT	ION OF DE	FICIENCIES		
	(Materials, Equipment, Safety,				
	Nothing to	o report	t		,
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	PROJECT STATUS I	REPORT	r		
CHANGE IN	CONTRACT: CHANGE ORDER EXTRA WO	RK	OTHER .		
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BID ITEM	DESCRIPTION OF CHANGE			QUANTITY CHANGE	NEW TOTAL
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REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND O	THER PERTINE	ENT INFORMATION)	·····	
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Attachme					
	WRS Quality Control Report		`		
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	Richard Strand	_4	MATION	Gamer	
• •	WESTINGHOUSE REMEDIATION SERVICES, INC.		RADIAN IN	ITERNATIONAL, LLC	

(HTS)			DAILY P	RODU	CTION REPOR	RT	Thursday	REPORT DATE		
DELOPE	DER NO.	· · · · · · ·	TITLE AND LOCATION		Sol-Lynn Site-		REPORT NO.	17-бер-зе		
	4412-98-40	200			n, Texas		8			
WRS JOS NO.	4412-50-40	250	Ĺ		PROJECT MANAGER					
1	tural Resource Conse	rvation Com	mission		Richard S	Strand		1		
WEATHER-AM	Cloudy				TEMPERATURE-AM	75				
WEATHER PM	Sunny				YEMPERATURE-PM	90				
	WESTINGHOUSE / SUBCONTRA	CTOR WORKFORCE			LOCATION AND DESCRIPTION OF WORK PERFORMED					
NUMBER	TRADE	HOURS	EMPLO	YER	No work at the site			myself		
1	Project Manager	8	WRS	_	are working at the		on a few	;		
1	HS/QC Officer		WRS		specification issue	_ \		1		
	Operator				Rain 1	W U				
	Contract Labor				1			  -  -		
	Contract Labor							ļ		
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<b> </b> -	Operator	8	<del> </del> -					ļ		
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					PE	R DIEM TOTA	ALS (			
						(including weekend	is)			
					USED TODAY		1			
	1				PREVIOUS RE	PORT	10			
					START OF PR		11	<u>.</u>		
TOTAL WORK	HOURS ON JOB	<del>-                                     </del>	WAS A JOB SAFETY I	AEETING HE			LOST TIME ACCIDE	NTS THIS DATE?		
SITE THIS DAT		16								
CUMULATIVE 1	TOTAL OF WORK		[]YE\$	DX ] NO		[ ]YES	рд но			
_	PREVIOUS REPORT	139.5			`			•		
1		IF "YES", ATTACH CO		NG RECORD		COMPLETED OSHA I	FORM			
START OF PROJECT 155.5			1011	HIS REPORT		ТС	THIS REPORT			
	·		PROJECT SA							
	DESCRIPTION	SOIL	WPE	CONCRETE	WATER OTHER		COMMENTS			
s 3 CO	LECTED THIS DATE:				<u> </u>	<del> </del>				
PREVIOUS CU	MULATIVE TOTAL:	_	ļ							
TOTAL SAMPL	ES COLLECTED:		<u> </u>		<u></u>	<u> </u>	·			

### IVRS

#### PROJECT QUANTITY SUMMARY

(Please write in categories no specified)						Thursday	17-Sep-88
	UNIT OF	QUANTITY	PRE	VIOUS	CURRENT PROJECT		ст
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		78		78		
TRENCH BACKFILLED	FEET		_				
HOPE PIPE REMOVED	FEET		78		. 78		
VALLTS REMOVED	EACH						
WELLS INSTALLED	EACH		3			3	
HDPA PIPE INSTALLED	FEET						
VAUILTS INSTALLED	EACH						
IMPORTED MATERIAL	CUYD						
WELL CUTTINGS	DRUM		12			12	
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			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATE	RIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
VISQUEEN	<u>.                                    </u>		<u> </u>			N/A	N/A
DRUMS				12	12	_N/A	N/A
BARRICADE TAPE				,		N/A	N/A
HDPE PIPE	<u></u>					N/A	N/A
PRE-CAST VAULTS						N/A	N/A
				-		N/A	N/A
						N/A	N/A
						N/A	N/A
						N/A	N/A
				,		N/A	N/A

-						REPORT DATE
		/* <b>-</b>				12 0 0
		(continued)				
SP WG NO.	Refer to daily cost summary sheets attached		1 JOB_		COMMENTS	
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	OJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
, Pr	OJECT EQUIPMENT EST	(EACH)	1	(DAYS)	DATE	DATE
CREW TRUCK	<del></del>	(EACH)	(DAYS)	(DATS)	DATE	DATE
RENTAL CAR		1	7	8	8-Sep-98	
OFFICE TRAILER		1	8	9	8-Sep-98	
PORTABLE TOILET	<u>.</u>	1	7	8	8-Sep-98	
PADIOS		3	21	24	8-Sep-98	
ORGANIC VAPOR MON	UITOR	1	7	8	8-Sep-98	
BOXTRUCK		1	7	8	8-Sep-98	
MINI EXCAVATOR		1	3	4	14-Sep-98	
Mile Er Co 111 47 Of C	·				11 dep 30	
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1					REPORT DATE
	LOCATIO	N AND DESCRIPTION OF	DEFICIENCIES		
		Materials, Equipment, Salety, and/or Wo	<del></del>	_	
		Nothing to rep			
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<del></del>	PDO I	ECT STATUS REPO	RT	<del> </del>	
		EGI GIAIGGIE. G			
CHANGE IN CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER	<u> </u>	
	C CANAGE OF DELL		L.JOHILK .		
BIID MEM	DESCRIPTION OF CHAI			QUANTITY CHANGE	NEW TOTAL
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REMARKS: (INCLUDE DIRECTIO)	NS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAF	ETY INSPECTIONS, AND OTHER PER	TINENT INFORMATION		<u> </u>
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Attachments: W	RS Tailgate Safety Meeting		-,		<u></u>
	RS Quality Control Report				
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· .	Richard Strand		DADIAN	TERNATIONAL II C	

		DAILY P	RODU	CTION	REPORT			REPORT DATE
							Friday	18-Sep-98
RM		TITLE AND LOCATION	———— N	Sol-Lynn Si	ite.		REPORT NO.	
4412-98-4029	0		Houston	n, Texas			9	
				PROJECT MANAG				
ral Resource Conserva	ation Com	mission			Richard Stra			
Cloudy	<del></del> ,			TEMPERATURE-	<u>M</u> _	80		
Sunny		- <u>-</u>		TEMPERATURE F		90's		
WESTINGHOUSE / SUBCONTRACTO	R WORKFORCE	:				ION AND DESCRIE WORK PERFORME		
TRADE	HOURS	EMPL	OYER		t the site du			myself
Project Manager	.8	WRS			ng at the Ho	uston office	on a few	1
HS/QC Officer	2	WRS		specificat	ion issues.			
Operator				RAIN DAY	, •			
Contract Labor				i 				
Contract Labor		<u> </u>						
Operator	8	,						
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						DIEM TOTA	1	ľ
		<u> </u>			(in	cluding weekend	s)	Ì
	<del></del>				USED TODAY			
<u> </u>	<del></del>	<u> </u>			PREVIOUS REPOR	r	11	
					START OF PROJEC	ा ।	12	
YOURS ON JOB		WAS A JOB SAFETY	MEETING HEL	D THIS DATE?	<u> </u>	WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?
	18							
OTAL OF WORK	155.5	[]YES	[X] NO			[ ]YES	DZJ NO	
PREVIOUS REPORT  KOURS FROM	100.0	IF "YES", ATTACH O	ODY OF MEETS	IG RECORD	`	IF "YES", ATTACH C	OMBI ETTEN OSHA I	FORM
UECT	173.5	•	THIS REPORT	13120010			THIS REPORT	, ,
<del></del>	<del></del> _	PROJECT S		06	<del></del>	<del></del>		
DESCRIPTION	SOIL	WPE S	CONCRETE		OTHER	- <u>-</u> -	COMMENTS	
THIS DATE:								
ALATIVE TOTAL:								
ES COLLECTED:								

(BTES)		PROJECT QUA	NTITY S	UMMAR	Υ .	<u> </u>	REPORT DATE
		(Please write in categories n	o specified)	·		Friday	18-Sep-86
	UNIT OF	QUANTITY	PRE	NORS	a	JRRENT PROJEC	<b>ст</b>
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL	TOTAL		
TRENCH EXCAVATED	FEET		78		78		
TRENCH BACKFILLED	FEET						
HIDPE PIPE REMOVED	FEET		78		·	78	
VAULTS REMOVED	EACH			•			
WELLS INSTALLED	EACH		3			3	
HOPA PIPE INSTALLED	FEET						
VAULTS INSTALLED	EACH			:			<u> —</u>
MAPORTED MATERIAL	CUYD						
WELL CUTTINGS	DRUM		12			12	
						<u> </u>	,
<u></u>							
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				<del></del>		<del></del>	
	<u> </u>		LICED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERIAL	LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE			(5,01)	(2/10)	(2410)	N/A	N/A
MSQUEEN				-		N/A	N/A N/A
DRUMS	<u> </u>			12	12		
BARRICADE TAPE					12	N/A	N/A
HDPE PIPE		<del></del> -		,		N/A	N/A
	. <u>.                                   </u>		<u> </u>			N/A	N/A
PRE-CAST VAULTS	·		<b></b>			N/A	N/A
				۰ .	<u> </u>	N/A	N/A
						N/A	N/A
			<u> </u>			N/A	N/A
						N/A	N/A
			<u> </u>	L		N/A ·	N/A

·		<del>-</del>	·	_	<del></del>	REPORT DATE
		(continued)				
SP /G NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE IN		N JOB.		COMMENTS	
-	Refer to daily cost summary sheets attached	•				
·						,
					· · · · · · · · · · · · · · · · · · ·	
					<u> </u>	
PR	OJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
	•	(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK				<u> </u>		
RENTAL CAR		1	В	9	8-Sep-98	
OFFICE TRAILER	-	1	9	10	8-Sep-98	
PORTABLE TOILET			8	9	8-Sep-98	
RADIOS		3	24	27	8-Sep-98	
ORGANIC VAPOR MON	ITOR	1	8	9	8-Sep-98	
BOXTRUCK		1	8	9	8-Sep-98	
MINI EXCAVATOR		1	4	5	14-Sep-98	
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<b>—</b>		<u> </u>	<b> </b>			
		!	]		1	

					REPORT DATE
	LOCATIO	ON AND DESCRIPTION OF	DEFICIENCIES		
		(Materials, Equipment, Satety, and/or Wo	rkvnenship)		
		Nothing to repo		· · · · · · · · · · · · · · · · · · ·	
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	PPO	ECT STATUS REPO	DT.	<u> </u>	
	1 1100	LOI SIATOSTILI O			
			<u> </u>		
CHANGE IN CONTRACT:	☐ CHANGE ORDER	EXTRA WORK	OTHER		
	10000 10000	<u> </u>			
BID ITEM	DESCRIPTION OF CHA	NGE		QUANTITY CHANGE	NEW TOTAL
			·		
			· <del></del>	<del></del>	<del> </del>
				<del></del>	
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	<del></del>				<del> </del>
	NS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SA	FETY INSPECTIONS, AND OTHER PER	TINENT INFORMATION)		
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	RS Tailgate Safety Meeting				1
Į Wi	RS Quality Control Report		`		
	t	,	•		
$\square$	<del>\</del>				
444					
`	Richard Strand			·	
WEOTHIOUG	LICE DEVEDIATION CEDVICES IN	•	DADIANIN	TERNATIONAL LLC	

(TES)			DAILY PR	ODUCTION	REPORT		Monday	REPORT DATE	
	ER NO.		TITLE AND LOCATION	Sol-Lynn S	site -		REPORT NO.	21 оср об	
	_	000		•		·		1	
WRS JOB NO.	<u>4</u> 412-98-40	290	<u> </u>	Houston, Texas			10		
CLIENT NAME	tural Resource Conse	nyation Com	mission '	PROJECT MANA	GER Richard Stran	nd			
	····	Valion Com	111331011			80	·		
WEATHER-AM	Sunny			TEMPERATURE-	AM				
WEATHER-PM	Sunny	-10-1		TEMPERATURE-	TEMPERATURE-PM 90'S  LOCATION AND DESCRIPTION				
	WESTINGHOUSE / SUBCONTRAC	TOR WORKFORCE				VORK PERFORMI			
NUMBER	TRADE	HOURS	EMPLOYE		nsite at 6:45 a				
1	Project Manager	8	WRS		on meeting. V				
1	HS/QC Officer	8	WRS		equipment operator on site. WRS began where we left off last week on removing piping west of the phone				
1	Operator	9.5	WRS		other excava				
	Contract Labor	4		in the mo	rning and wil	l begin rem	oving well v	/auits.	
					work through				
1	Contract Labor	9.5			nged with the			r to store	
1	Operator	9.5	WRS	ii —	nd new pipin				
				1)	ff was deliver			ed Rental.	
!		-	<del>                                       </del>		vill be stored i				
			<u></u>		Rich arranged for the concrete cutting company to be				
					onsite tomorrow morning to begin cutting.  Crew backfilled all excavations and moved all				
					equipment into the treatment yard and WRS left the				
				site at 5:00 pm.					
		_			<del>70 p.,</del>			:	
	<u> </u>				•			:	
1				ll l				:	
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					PER I	DIEM TOTA	ALS		
					(incl	luding weekend	e)		
		_							
			<u> </u>	<del> </del> .	USED TODAY		12		
<b> </b>			<u> </u>	<del></del>	PREVIOUS REPORT				
					START OF PROJECT		16		
TOTAL WORK	HOURS ON JOB E	48.5	WAS A JOB SAFETY ME	ETING HELD THIS DATE?	٧	WERE THERE ANY	LOST TIME ACCIDE	ENTS THIS DATE?	
CUMULATIVE 1	TOTAL OF WORK		[]YES	рх ј но		[ ]YES	DC] NO		
HOURS FROM	PREVIOUS REPORT	173.5	_		_				
TOTAL WORK	HOURS FROM		IF "YES", ATTACH COPY	OF MEETING RECORD	ı	F YEST, ATTACH C	COMPLETED OSHA	FORM	
START OF PROJECT 222			TOTHIS	REPORT		то	THIS REPORT		
[			PROJECT SAM	MPLE LOG					
	DESCRIPTION	SOIL		NCRETE WATER	OTHER		COMMENTS		
SAMEETES COL	SAME S COLLECTED THIS DATE:								
	PFOSITION CUMULATIVE TOTAL:					<del></del>		-	
TOTAL SAMPL	ES COLLECTED:								

### PROJECT QUANTITY SUMMARY

		(Please wite in categories :	no specified)			Monday	21-Sep-88
	UNIT OF	QUANTITY	PRE	victús	α	JRRENT PROJEC	ा ِ
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET	231	. 78		309		
TRENCH BACKFILLED	FEET	309			309		
HIDPE PIPE REMOVED	FEET	231	78		309		
VAULTS REMOVED	EACH					<u></u>	
WELLSINSTALLED	EACH		3			3	
HDPA PIPE INSTALLED	FEET					. <u></u>	
VAULTSINSTALLED	EACH						
IMPORTED MATERIAL	CUYD						
WELL CUTTINGS	DRUM		12			12	
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	<del>-    </del> .					·	<u>-</u>
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,			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MAT	ERIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
VISQUEEN			<u> </u>			N/A	N/A
DRUMS				12	12	N/A	N/A
BARRICADE TAPE						N/A	N/A
HDPE PIPE						N/A	N/A
PRE-CAST VAULTS						N/A	N/A
			<u> </u>	-		N/A	N/A
						N/A	N/A
						N/A	N/A
			ļ			N/A	N/A
			<u>                                     </u>			N/A	N/A

(B)	PROJECT QUA			Υ		REPORT DATE
		(continued)			Monday	21-Sep-88
SP AG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE	NCORPORATED	IN-JOB		COMMENTS	
	Refer to daily cost summary sheets attache	d.				
			(			
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· 		<del></del>		<del></del> _		
P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL.	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK		1		1	21-Sep-98	
RENTAL CAR			9	10	8-Sep-98	
OFFICE TRAILER			10	11	8-Sep-98	
PORTABLE TOILET		1	9	10	8-Sep-98	
RADIOS		3	27	30	8-Sep-98	
ORGANIC VAPOR MONITOR			9	10	8-Sep-98	
BOXTRUCK	1	9	10	8-Sep-98		
MINI EXCAVATOR	1	5	6	14-Sep-98		
		1		1	21-Sep-98	
		1		1	21-Sep-98	
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	QUA	ALITY CONTRO	L REPORT		REPORT DATE
				Monday	21-Sep-88
	LOCAT	TION AND DESCRIPTION OF	F DEFICIENCIES		
		Materials, Equipment, Sefety, and/or \			
	,	Nothing to rep	ort		
				•	
	•				
					···
	PRC	OJECT STATUS REPO	ORT	- · <b>-</b>	
				<u> </u>	
CHANGE IN CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER		
				<del></del>	
	PERSONAL OF				
BID ITEM	DESCRIPTION OF C	CHANGE		QUANTITY CHANGE	NEW TOTAL
					<del>                                     </del>
	<del></del>			<del></del>	ļ
					<del></del>
REMARKS: (INCLUDE DIRECTION:	IS FROM CLIENT, VISITORS, COMPLIANCE NO	OTICES, SAFETY INSPECTIONS, AN	4D OTHER PERTINENT INF	ORMATION)	
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		<del></del>	<del></del>		
	S Tailgate Safety Meeting		~		
AALC	S Quality Control Report				
~					
15 H 21	$\overline{}$		114	VA	
	Pintonal Strand	<del></del>	M		
	Richard Strand		THERMA		
WESTINGHOUSE	E REMEDIATION SERVICES, INC.		RADIAN IN	ITERNATIONAL, LLC	

(FFS)		**	DAILY PROI	DUCTION	REPORT	•	T	REPORT DATE
	DER NO.	· <u>-</u>	TITLE AND LOCATION	Sol-Lynn S	site_	<del></del>	Tueday REPORT NO.	22-Sep-88
	4412-98-402	200	. Hay	ston, Texas			11	1
MS JOB NO.			1100	PROJECT MANA	l			
	atural Resource Conser	vation Com	mission	7,135251,7750.	Richard Strand			Ť
ÆATHER AM	0		<del></del>	TEMPERATURE-				
ÆATHER PM	0	<del> </del>		TEMPERATURE-		90's		
NEXT INC.	WESTINGHOUSE / SUBCONTRAC	TOR WORKFORCE			LOCAT	ION AND DESCRI WORK PERFORM		
UMBER	TRADE	HOURS	EMPLOYER	Arrived o	nsite at 6:45	am conduc	ted safety a	nd
1	Project Manager	8	WRS		n meeting.			
		···		the concr	ete around t	<u>h existing v</u>	aults. The c	rew was
	HS/QC Officer	8	WRS		eak up all va			
1	Operator	11	WRS		r road in the			
1	Contract Labor	9.5			peration toda			
	Contract Labor				. The opera			
	<del>                                     </del>				ing breaking at into the tre			
<u>_1</u>	Operator	11	WRS	site at 6:3		<u>auneijt yait</u>	u disu vino	<u>eit tile</u>
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	:				l (in	cluding weekend	de)	
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		<b></b>			USED TODAY		3	
				_	PREVIOUS REPOR	τ	16	ł
		1		l	START OF PROJEC	ਸ	19	
OTAL WORK	HOURS ON JOB		WAS A JOB SAFETY MEETING	HELD THIS DATE?		WERE THERE AND	Y LOST TIME ACCID	ENTS THIS DATE?
SITE THES DAT	Œ	47.5						
SUTTATIVE	TOTAL OF WORK	Ţ	()YES px	] но		[ ]YES	DZI NO	ļ
HOURS FROM	PREVIOUS REPORT	222	·		•	•		1
	HOURS FROM		IF "YES", ATTACH COPY OF M	EETING RECORD		•	COMPLETED OSHA	FORM
START OF PR	OJECT	269.5	TO THIS REP	ORT		то	THIS REPORT	
			PROJECT SAMPL	E LOG				ļ
	DESCRIPTION	SOIL	WIPE CONCE		OTHER		COMMENTS	
w 000	LLECTED THIS DATE:							_
	MULATIVE TOTAL:						<del> </del>	
	LES COLLECTED:	<del>                                     </del>	<del>                                     </del>	<del></del>				
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### PROJECT QUANTITY SUMMARY

		(Please write in categories no specified)			Tueday 22-\$ep-88			
	UNIT OF	QUANTITY	PRE	viotis	α	JRRENT PROJEC	टा (	
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL	TOTAL			
RENCH EXCAVATED	FEET	140	309			449		
RENCH BACKFILLED	FEET		·			·		
IDPE PIPE REMOVED	FEET		309			309	ı	
AULTS REMOVED	EACH					_		
VELLS INSTALLED	EACH		3			3		
IOPA PIPE INSTALLED	FEET							
/AULTS INSTALLED	EACH							
VIPORTED MATERIAL	CUYD							
VELL CUTTINGS	DRUM		12	-	•	12		
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			· · · · · · · · · · · · · · · · · · ·					
	<u></u>		USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL	
PROJECT MATER	RIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE	
⇒PE						N/A	N/A	
VISQUEEN						N/A	N/A	
DRUMS			<del></del>	12	12	N/A	N/A	
BARRICADE TAPE			400	. 12	400	N/A	N/A	
HDPE PIPE			<del>  ~~</del>		<del>_</del>	N/A	N/A	
PRE-CAST VAULTS					<del>, ,</del>	N/A	N/A	
			<del> </del>		<u> </u>	N/A	N/A	
			<del>                                     </del>			N/A N/A		
			<del>                                     </del>	<del>                                     </del>		<u> </u>	N/A	
	<u>.</u>	<u> </u>	<del>                                     </del>	<del> </del>	<u> </u>	N/A	N/A	
	<del>_</del>	<u> </u>	<del> </del>			N/A	N/A	
		<del></del>			L	N/A	N/A	

HTES	PROJECT QUA	PROJECT QUANTITY SUMMARY							
		(continued)			Tueday	22-8ep-68			
PEC VG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		IN-JOB		COMMENTS				
	Refer to daily cost summary sheets attached	ed.							
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		•			·	<u> </u>			
						<u> </u>			
	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL			
		(EACH)	(DAYS)	(DAYS)	DATE	DATE			
**REW TRUCK									
RENTAL CAR		1	11	12	8-Sep-98				
OFFICE TRAILER		1	12	13	8-Sep-98				
PORTABLE TOILET		1	10	11	8-Sep-98				
RADIOS		3	30	33	8-Sep-98				
ORGANIC VAPOR MC	NITOR	1	10	11	8-Sep-98				
30XTRUCK		1	10	11	8-Sep-98				
VINI EXCAVATOR		1	6	7	14-Sep-98				
			<u> </u>						
		<del>                                     </del>							
RENTAL MINI EXCAV	ATOR	1	1	2	21-Sep-98				
RENTAL COMPRESS	· · · · · · · · · · · · · · · · · · ·	1		1	21-Sep-98				
						· ·			
RENTAL DUMP TRUC	3K	<u> </u>	1		15-Sep-98	15-Sep-98			
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(IFRS)	QUALITY CO	NTROL	REPORT	Tueday	REPORT DATE
7	LOCATION AND DESC	PIPTION OF F	NEELCIENCIES	Tueday	22-Sep-88
	1				
	(Materiels, Equipment,	ng to repor			
		<b>.</b>		·	
	•				
	PROJECT STAT	US REPOR	RT		
ZHANGE IN	N CONTRACT: CHANGE ORDER EXTRA	N WORK	OTHER		
MOTTEM.	DESCRIPTION OF CHANGE			QUANTITY CHANGE	NEW TOTAL
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		·			
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EDMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INS	SPECTIONS, AND C	THER PERINENT NE	ORMATION)	
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	<i>,</i>				ļ
Attachm	ents: WRS Tailgate Safety Meeting WRS Quality Control Report		`		
	Sent		A	To to	
	Richard Strand		CAMO	to Cone	
<u> </u>	WESTINGHOUSE REMEDIATION SERVICES, INC.		RADIAN IN	TERNATIONAL, LLC	

(WIS)		QUA	LITY CONTROL	REPORT		REPORT DATE
				·	Wednesday	23-5ep-68
	I	LOCATI	ON AND DESCRIPTION OF	DEFI <u>C</u> IENCIES		
	1	(M	isterials, Equipment, Safety, and/or V	Vorkmenship)		
· .			Nothing to rep	<del></del>		
			•		:	
		PRO	JECT STATUS REPO	DRT	····	
		<u> </u>				
CHANGE IN	N CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER	<u> </u>	
BID ITEM	· .	DESCRIPTION OF C	HANGE		QUANTITY CHANGE	NEW TOTAL
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REMARKS:	AND LINE DIRECTIONS ES	ROM CLIENT, VISITORS, COMPLIANCE NO	TIMES SALETY NEDECTIONS AN	D WINED DEPTMENT NO	*ACMAATIOAN	
See letter approving	to Radian (John Ko the operation. Als	vski) dated September 23, 19 o note that the well cave-ins vis date forward all wells drille	98 Overdrill of SZE-7, S were due to the wells bei	SZE-8 and SZE-9. ng drilled and not	Attached is the fax from It grouted the same day and	
Attachm		ailgate Safety Meeting uality Control Report		`		_
	AS	1				
	Joe An	derson/Richard Scott		Westian	1 COME 2	
	WESTINGHOUSE R	EMEDIATION SERVICES, INC.	شع	RADIAN II	NTERNATIONAL, LLC	

(NYTES)			DAILY P	RODU	CTION	REPORT		Wednesday	REPORT DATE
DELINERY OR	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	ite_	,	REPORTINO.	
ARS JOB NO.	4412-98-4	0290	ĺ	Houston	on, Texas			12	
CLIENT NAME		0200	!		PROJECT MANAGER				
	atural Resource Cons	ervation Com	mission		Joe Anderson/Richard Scott				
WEATHER-AM					TEMPERATURE-AM 80				
		<del></del>		-			90's		
MEATHER-PM	Sunny WESTINGHOUSE / SUBCONTRA	ACTOR WORKFORCE	:		TEMPERATURE P	LOCA	TION AND DESCR WORK PERFORM		
VLMBER	TRADE	HOURS	EMPLO	MER	Arrived on	site at 6:45	am conduct	led safety ar	nd_
1	Project Manager	5	WRS		production	n meeting.	WRS crew v	vorked on re	moving
	HS/QC Officer	8_	WRS					The crew rer west side or	
1	Operator	11	WRS		phone store. The concrete was place into rolloffs.				
<u>·</u>	<del> </del>				Rich is working on getting the concrete accepted in				
1	Contract Labor	9.5	<u> </u>		landfill. Two rolloffs were delivered for concrete.				
1	Contract Labor	9.5	[		SZE-6 was drilled and grouted by Best Drilling. Al				
1	Operator	11	WRS		Radian and the drilling foreman notified WRS that				
<u>.</u>	Оролисо	<del>-  </del>	71.13		wells SZE-7,8 and 9 which were drilled earlier in the				
					project had slightly caved and that WRS would ha				
								ould be pro	
								<u> Radian (Jo</u>	
	<del></del>	<del></del>						onduct this o	
								ne overdrillin	ng Will
						e in the mor			ad and
								e treatment	yard and
					WRS left the site at 6:00 pm.				
		,							
						<del></del>	· ·		
					!	PER	DIEM TOTA	ALS	,
			<u></u>			(ir	cluding weekend	is)	
						USED TODAY		3	i
						PREVIOUS REPOR	σ	19	
			<u></u>			START OF PROJEC	ा	22	_
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY I	MEETING HEL	D THIS DATE?		WERE THERE AN	LOST TIME ACCIDE	ENTS THIS DATE?
SITE THIS DAT	E	54							
CUMULATIVE	TOTAL OF WORK		[]YE8	[X] NO		•	[]YES	ON [X]	
HOURS FROM	PREVIOUS REPORT	269.5	]			~			
TOTAL WORK		323.5	IF "YES", ATTACH CO	PY OF MEETIN HIS REPORT	IG RECORD			COMPLETED OSHA (	FORM
			<u> </u>						
	DESCRIPTION	SOIL	PROJECT SA	MPLE L		OTHER		COMMENTS	
SAMPLES COL	LLECTED THIS DATE:								
	MULATIVE TOTAL:								
TOTAL SAMPL	ES COLLECTED:								

(URS)		PROJECT QUA			Y		REPORT DATE
		(Please write in categories n	o specified)			Wednesday	23-3ep-88
	UNIT OF	QUANTITY	1	viğus	α	RRENT PROJEC	
DESCRIPTION	MEASURE	THIS DATE	CUMULA:	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		449			449	
TRENCH BACKFILLED	FEET	449				449	
HIDPE PIPE REMOVED	FEET	140	309			449	
VALILTS REMOVED	EACH	8				8	
WELLSINSTALLED	EACH	1	3			4	
HOPA PIPE INSTALLED	FEET						
VAULTS INSTALLED	EACH				,		
IMPORTED MATERIAL	CUYD	4				4	
WELL CUTTINGS	DRUM	4.	12			16	
		<u>_</u> _					
1		·					
	<del> </del>				·- <u>-</u>		
<u> </u>		<u> </u>					
	<del>                                     </del>	<u>-</u>			<del></del>		
		· <u> </u>					
	<del>                                     </del>	·	_	<u></u>			
	<u> </u>			_		<del></del>	
		· · · · · · · · · · · · · · · · · · ·	<del> </del>			<del></del>	<u> </u>
			<u> </u>				
PROJECT MATERIA	N. LIST			PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
	TE LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE	<u> </u>	<u> </u>	<del> </del>		<u> </u>	N/A	N/A
VISQUEEN		<u></u>	-	40	46	N/A	N/A
DRUMS TABE			4	12	16	N/A	N/A
BARRICADE TAPE	·· <del>·</del> ··		<del> </del>	400	400	N/A	N/A
HDPE PIPE	· —————					N/A	N/A
PRE-CAST VAULTS			<del>                                     </del>			N/A	N/A
			-			N/A	N/A
						N/A ,	N/A
		<u> </u>	<del> </del>			N/A	N/A
		<u></u>	<del> </del>	<b> </b>		N/A	N/A
			<u> </u>		<u> </u>	N/A	N/A

WES	PROJECT QU	ANTITY S	SUMMAR	Υ		REPORT DATE
			Wednesday	23-Sep-88		
SPEC / DWG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		COMMENTS			
	Refer to daily cost summary sheets attach		· · · · · · · · · · · · · · · · · · ·			
	1					
					·	
	1					
				, 		
					·-·········	
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	2	3	21-Sep-98	
RENTAL CAR		1	12	13	8-Sep-98	
OFFICE TRAILER		1	13	14	8-Sep-98	
PORTABLE TOILET		1 1	11	12	8-Sep-98	
RADIOS_		3	_33	36	8-Sep-98	
ORGANIC VAPOR MO	NITOR	1	11	12	8-Sep-98	
BOXTRUCK		1	11	12	8-Sep-98	
MINI EXCAVATOR		_1	7	8	14-Sep-98	
Rubber Til	e Hoe.	/	0		23.500	
RENTAL MINI EXCAVA	ATOR	1	2	3	21-Sep-98	
RENTAL COMPRESSO	DR AND HAMMER	1	1	2	21-Sep-98	24-Sep-98
	•					
RENTAL DUMP TRUC	K		1		15-Sep-98	15-Sep-98
				_		-
				<u> </u>		
		<b>-</b>				
		<del></del>		<del></del> -		
			<del>                                     </del>			
•			J		J	J

(WES)			DAILY P	RODU	CTION	REPORT	•		REPORT DATE
		<del></del>			Sol-Lynn Si	ite .	<u> </u>	Thursday	24-Sep-98
OE ORD	XER NO.		TITLE AND LOCATION		•	القيم	; ;	REPORT NO.	l
WRS JOB NO.	4412-98-40	290	<u> </u>		n, Texas			13	
CLIENT NAME	tural Resource Conse	nyatian Cam	mission .	ľ	PROJECT MANAG		on/Richard So	Soft	
		I Valion Com	IIIISSIOIT					<u>.</u>	
WEATHER-AM	Sunny			<del></del>	TEMPERATURE-A	<u> </u>	80	<del></del> .	
WEATHER-PM	Sunny			_	TEMPERATURE-P		90'S	Trichi	
	WESTINGHOUSE / SUBCONTRA	CTOR WORKFORCE	<u> </u>				WORK PERFORM		
NUMBER	TRADE	HOURS	EMPLO	YER	Arrived on	site at 6:45	am conduct	ed safety an	ıd
1	Project Manager	8	WRS		production	n meeting.			
1	HS/QC Officer	8	WRS		WRS crew	began the	day by remo	ving the pip	ing and
1	Operator	10	WRS		two vaults	from the m	ound area tl	nen began w	orking
1	Contract Labor		<u>.</u>					eet. All pipe	
1	Contract Labor	10						ackfilled price	or to the
							rill crew con	E-8 and SZE	-9 Roth
	Operator	10	WRS					pproved by	
<u></u>								ion of the o	
								to begin dri	
					another w	ell, the drill	crew decon	all equipme	nt and
<u> </u>		<del></del>			,			verdrill the S	SZE-7 in
<b></b> -					front of the cell phone store in the morning.				
,	) ·				MDC move	od all oquin	mant into th	a traatmant	vord and
	-	<u> </u>				he site at 6:		e treatment	yaru anu
<del>                                     </del>		<del>                                     </del>			Witto lese t	ne one at o.	oo piiii		
<del> </del> -	<u> </u>		ļ <u>-</u>		<u> </u>				
					,		·		}
					,	PER	DIEM TOTA	ALS	
					i	(in	cluding weekend	ls)	1
						USED TODAY	<u>-</u> -	3	
							<del></del>	22	
<del></del>			<del></del>			PREVIOUS REPOR		25	
<del>                                      </del>						START OF FRANCE			
STE THIS DATE	HOURS ON JOB	46	WAS A JOB SAFETY N	AEETING HEL	D THIS DATE?		WERE THERE AN	LOST TIME ACCIDE	:NTS THIS DATE?
	FOTAL OF WORK	10	[]YES	[X] NO			[]YES	рж] жо	
li .	PREVIOUS REPORT	323.5	12.00	<b>V</b> -1				<b>\$4</b>	
TOTAL WORK HOURS FROM			IF YES", ATTACH COF	Y OF MEETIN	IG RECORD		IF "YES", ATTACH O	XXMPLETED OSHA (	FORM .
START OF PROJECT 369.5			тот	IS REPORT			то	THIS REPORT	
			PROJECT SA	MPLE L	.OG				
	DESCRIPTION	SOIL		CONCRETE		OTHER		COMMENTS	
S COL	LECTED THIS DATE:								
PREVIOUS CLI	MULATIVE TOTAL:								
TOTAL SAMPLES COLLECTED:									

## WRS

### PROJECT QUANTITY SUMMARY

	· · · · · · · · · · · · · · · · · · ·	(Please write in categories n	o specified)			Thursday	24-Sep-88
	UNIT OF	QUANTITY	PRE	Moes	α	JRRENT PROJEC	टा 💮
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET	125	449		574		
TRENCH BACKFILLED	FEET	<u> </u>	449		449		
HOPE PIPE REMOVED	FEET	125	449	·		574	·
/AULTS REMOVED	EACH	22	8	. <u></u>		10	· • • • • • • • • • • • • • • • • • • •
MELLS INSTALLED	EACH		4	·		4	
*DPA PIPE INSTALLED	FEET		<u> </u>		<u> </u>		
/AULTS INSTALLED	EACH						<u></u>
MPORTED MATERIAL	CU YD	3				3	<u></u>
A/ELL CUTTINGS	DRUM	3	16			19	
						_	
			·				
						•	
•							
,							
		-			<del></del>		
	-					<del></del>	
					· · ·		
,			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERIA	LUST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE			(0.04)	(13,10)	(DATO)	N/A	N/A
VISQUEEN			<del> </del> -			N/A	N/A
DRUMS			3	16	19		† · · · · ·
					400	N/A	N/A
BARRICADE TAPE		<del></del>	<b> </b>	· 400	400	N/A	N/A
HDPE PIPE		· - · · · · · · · · · · · · · · · · · ·	<del> </del>	-	<u> </u>	N/A	N/A
PRE-CAST VAULTS		·	<del> </del>	<u> </u>		N/A	N/A
			<del>                                     </del>	-	-	N/A	N/A
			<del>                                     </del>			N/A	N/A
			<del>                                       </del>			N/A	N/A
			<del>                                     </del>			N/A	N/A
			<u> </u>	<u></u>	<u> </u>	N/A	N/A

PROJECT QUANTITY SUMMARY					
	(continued)				
SP WG NO. EQUIPMENT / MATERIAL RECEIVED TODAY TO BE	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB				
Refer to daily cost summary sheets attach	ed.		<u> </u>		
	<u>-</u>				
PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
	(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK	1	3	4	21-Sep-98	
RENTAL CAR	1	13	14	8-Sep-98	
OFFICE TRAILER	11	14	15	8-Sep-98	
PORTABLE TOILET	1	12	13	8-Sep-98	
RADIOS	3	36	39	8-Sep-98	
ORGANIC VAPOR MONITOR	1	12	13	8-Sep-98	
BOXTRUCK	1	12	13	8-Sep-98	
MINI EXCAVATOR	1	8	9	14-Sep-98	
After Tire Hore	1		2	23-520	
					·
RENTAL MINI EXCAVATOR	1	3	4	21-Sep-98	
RENTAL COMPRESSOR AND HAMMER	1	2	3	21-Sep-98	24-Sep-98
	1	1	2	23-Sep-98	
RENTAL DUMP TRUCK		. 1		15-Sep-98	15-Sep-98
					-
			_		
			· · · · · · · · · · · · · · · · · · ·		
				1	

BTES	QUALITY CONTROL REPOR	T	REPORT DATE
		Thursday	24-Sep-88
	LOCATION AND DESCRIPTION OF DEFICIENCIES		
	(Meterials, Equipment, Safety, and/or Workmanship)		
	Nothing to report		
		,	
	·		
	PROJECT STATUS REPORT		
CHANGE IN	N CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
BIDITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
<u> </u>		_	
	——————————————————————————————————————		
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT	(INFORMATION)	
	to Radian (John Kovski) dated September 23, 1998 Overdrill of SZE-7, SZE-8 and SZE		
	the operation. Also note that the well cave-ins were due to the wells being drilled and		heavy rains
pegan rue	next day. From this date forward all wells drilled will be grouted the same day with no	exceptions.	
		<u> </u>	
Attachm	•		
	WRS Quality Control Report		
1	<u>_</u>		
	0-22 hAt	3	
	Los Anders on / Dishard South	W(: ; f	,
	Joe Anderson/Richard Scott	YVILLI LUT GOME	
	WESTINGHOUSE REMEDIATION SERVICES, INC. RADIAN	INTERNATIONAL, LLC	

(HTS)	<u> </u>	·	DAILY PI	RODUCTIO	N REPORT	•		REPORT DATE
<b>*</b>	DER NO.	_	TITLE AND LOCATION	Sol-Lyn	n Site-		Friday REPORT NO.	25-Sep-98
	4412-98-40	200		Houston, Texas			14	
ARS JOB NO.		1230		PROJECT M				
	atural Resource Conse	rvation Com	mission		Joe Anderso	on		T T
MEATHER-AM	Sunny		•	TEMPERATI	JRE-AM	80		
WEATHER-PM	Sunny		•	TEMPERATU	JRE-PM	90's		
	WESTINGHOUSE / SUBCONTRA	CTOR WORKFORCE				TION AND DESCRI WORK PERFORM		
YUMBER	TRADE	HOURS	EMPLOY	ÆR .				
1	Project Manager	7.5	WRS					
1	HS/QC Officer	8	WRS	SEE A	TTACHED FOR	WORK DES	CRIPTION	
1	Operator	12	WRS					:
1	Contract Labor							:
	Contract Labor	11.5		<del></del>				:
1	Operator	12	WRS					
·	Орегии	- '-	VIICO					
			<u> </u>					•
	<u> </u>							:
	<u></u>					,		
<b>-</b>								
			•	1				
	<del>,</del>							
					PER	DIEM TOTA	ALS	
					(ir	ncluding weekend	ls)	
					USED TODAY		3.	
					PREVIOUS REPOR		25	
	<del></del>				START OF PROJE		28	
TOTAL WORK	HOURS ON JOB	<del></del>	WAS A JOR SAFETY M	REETING HELD THIS DATE			LOST TIME ACCIDE	NTS THIS DATE?
SITE THIS DAT		51					IRRE MONDE	
CUMULATIVE	TOTAL OF WORK		[]YES	DX ] NO		[ ] YES	ркј но	
	PREVIOUS REPORT	369.5			•			
START OF PR	HOURS FROM OJECT	420.5	1	Y OF MEETING RECORD IIS REPORT			XXMPLETED OSHA I THIS REPORT	FORM
		<u> </u>	PROJECT SA		<u> </u>			
<del></del>	DESCRIPTION	SOL		CONCRETE WATER	R OTHER		COMMENTS	
si co	LLECTED THIS DATE:							
PREVIOUS CU	MULATIVE TOTAL:							
TOTAL SAMPL	ES COLLECTED:							

(B/RS)		PROJECT QUA	NTITY S	UMMAR	Υ		REPORT DATE
<u> </u>		(Picese write in categories r	no specified)			Friday	25-Sep-88
	UNIT OF	QUANTITY	PRE	Mons	α	JRRENT PROJE	CT 🚅
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		574			574	
TRENCH BACKFILLED	FEET	125	449			574	, <u> </u>
HOPE PIPE REMOVED	FEET		574	,		574	
VAULTS REMOVED	EACH	4	10			14	
WELLS INSTALLED	EACH	11	4			5	<u>.</u>
HOPA PIPE INSTALLED	FEET		<u> </u>				
VAULTS INSTALLED	EACH	<del></del> _					
IMPORTED MATERIAL	CUYD						
WELL CUTTINGS	DRUM	6	19			25	<u>.                                    </u>
					<u> </u>		
<u> </u>							
		<u> </u>					
					·	<u> </u>	
<u>.</u>				·			
·							
		<u> </u>					
						-	
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVA
PROJECT MATE	RIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
VISQUEEN						N/A	N/A
DRUMS			6	19	25	N/A	N/A
BARRICADE TAPE				<b>400</b>	400	N/A	N/A
HDPE PIPE						N/A	N/A
PRE-CAST VAULTS						N/A	N/A
						N/A	N/A
						N/A	N/A
						N/A	N/A
						. N/A	N/A
t land	- <u></u>					N/A	N/A
	i Neg		-				

(WES)	PROJECT QUANTITY SUMMARY						REPORT DATE
	·		Friday	28-Sep-88			
SP NG NO.	EQUIPMENT / MATERIA		COMMENTS				
	Refer to daily cost sum	mary sheets attache	d.				
'					_		
					<u> </u>		
,							
¦ · F	PROJECT EQUIPMENT LIST		USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
· 			(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK	·		1	4	5	21-Sep-98	<u></u>
RENTAL CAR			1	14	15	8-Sep-98	·
OFFICE TRAILER			1	15	16	8-Sep-98	
PORTABLE TOILET	· -		1	13	14	8-Sep-98	
RADIOS	·		3	39	42	8-Sep-98	
ORGANIC VAPOR MO	NITOR	<u> </u>	1	13	14	8-Sep-98	
BOX TRUCK	<u>,</u> .	<u> </u>	1	13	14	8-Sep-98	
MINI EXCAVATOR			1	9	10	14-Sep-98	
Alpher Ti	re HOC		1	2		23 5/2	
	<u> </u>						
	<u> </u>		1	2	3	23-Sep-98	
RENTAL MINI EXCAVA	TOR	· · · · · · · · · · · · · · · · · · ·	1	4	5	21-Sep-98	
RENTAL COMPRESSO	OR AND HAMMER		1	2	3	21-Sep-98	24-Sep-98
ļ. <u></u>	· <del>-</del>						
RENTAL DUMP TRUC	<u>κ</u>			1		15-Sep-98	15-Sep-98
					- · · · · · · · · · · · · · · · · · · ·		
						<u></u>	
			<u> </u>				
·							
			_	<u> </u>			<u> </u>

WRS	QUALITY CONTROL REPOR	RT Friday	REPORT DATE
	LOCATION AND DESCRIPTION OF DEFICIENCIE		28-Sep-86
	LOCATION AND DESCRIPTION OF DEFICIENCIE	•	
	(Materials, Equipment, Safety, and/or Workmanship)  Nothing to report		
			,
	PROJECT STATUS REPORT		
CHANGE IN	CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
ВЮПЕМ	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEWTOTAL
		<del>-    </del>	
<del></del>	<del></del>		
	<u> </u>		
	ļ ·		
	<u> </u>		
REWARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINE	IT INFORMATION)	
Attachm	ents: WRS Tailgate Safety Meeting WRS Quality Control Report		
	A Sall		
	Joe Anderson  WESTINGHOUSE REMEDIATION SERVICES, INC.	N INTERNATIONAL, LLC	

#### LOCATION AND DESCRIPTION OF WORK PERFORMED

FRIDAY 9-25-98
REPORT 14 Attachment

Arrived onsite at 5:45 am and conducted the production and safety meetings.

The filling crew began overdrilling SZE-7 in front of the cell phone store. All equipment was removed and the entire parking lot was pressure washed prior to 9:00 am. The crew then proceeded to drill MW-31 on the north side of 1-610.

The WRS crew began backfilling all excavation in the mound area from where the piping and vaults had been removed. After the backfilling had been completed the crew bagan excavating soil around vault SZE-5, they discovered old electrical equipment and transformer parts with what appeared to be PCB odors. After notifing Radian, Radian directed WRS to halt all operations in the confines of the treatment facility until testing of the soil could be performed. At that time the crew began breaking up the concrete east of the cell phone build when they discovered a sewer line running on top and parellel with the extraction piping. WRS did not want to take a chance on breaking the sewer line so Radian is working on developing a field directive addressing this issue. When demolition began on the existing vaults the Radian engineer inspected the pump control panels within the vaults and deemed them to be in poor unusable condition so the WRS crew removed the panels during the demolition and place them into the rolloffs. Upon on talking with Joe Anderson he indicated that they were to be saved and reused. Radian is working on developing a change order to have WRS replace all the control panels.

The crew finished the day and the site was closed and all employees left at 6:00pm.

The following was accomplished on 9/25/98:

Extraction well SZE-7 was overdrilled to remove collapsed sediments. The wells was then grouted and completed per specifications.

MW-31 was drilled and completed.

Approximately 140 feet of extraction pipe and associated pipes were removed from the area connecting SZE - 1 to SZE - 2.

Approximately 76 feet of concrete connecting SZE-2 with SZE-5 were removed (along the east side of the cellular phone dealer). A new sewer line was located in this alleyway above the extraction piping system which needs to be removed.

Initiated the removal of the SZE-5 vault, however, activities were discontinued when transformer parts and PCB odors were detected. Radian has ordered PCB screening kits which will arrive on Saturday for further testing.

The 9 pump control panels that were located inside the vaults were inspected in detail by the Engineer. It is apparent that, when in the vault, water entered them causing corrosion of the electrical components. The Engineer considers that the components integrity has been jeopardized and that they should be replaced for system reliability.

Construction Days - 8
Rain Days - 7
Total Days - 15 (excluding mobilization)

14

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47.5

(YES)			DAILY PR	RODU	CTION F	REPORT		Saturday	REPORT DATE	
DEL	ER NO.		TITLE AND LOCATION		Sol-Lynn Si	te-		REPORT NO.	zacepes	
	4412-98-402	290		Houston	ı, Texas	J		15	j	
WRS JOB NO.	4412-30-402				PROJECT MANAG		<del></del>			
	tural Resource Conser	vation Com	mission	ľ	Joe Anderson/Richard Scott					
	Sunny				TEMPERATURE-A		/ 80			
WEATHER-AM			<del></del>			/ 00				
WEATHERPM	Sunny		<del></del>		TEMPERATURE-P	PM / 9U  LOCATION AND DESCRIPTION				
	WESTINGHOUSE / SUBCONTRACT	TOR WORKFORGE					WORK PERFORM	ED		
NUMBER	TRADE	HOURS	EMPLOY	ER				nducted the	safety	
1	Project Manager	8	WRS			ction meetii				
	HS/QC Officer	8	WRS					from the ease d it into rolle		
	Operator	8	WRS					andfill in Ho		
		· ·				f brought ba				
	Contract Labor	<del></del>	<u> </u>		Crew remo	ved approx	imately 20 f	oot of pipe r	north of	
	Contract Labor	8			the tréatme	ent facility i	<u>n the alley.</u>			
<b>j</b>	l Operator	8	WRS	j	WRS and I	Radian remo	oved all con	<u>trol panels f</u>	<u>rom</u>	
		<del>                                     </del>			<del>7</del>			FI. The con	trol	
<b></b>		<del> </del>	<del></del>			re wrapped				
								m around Sa		
	Į	İ			conducted Clor-in-Soil testing for PCB's. The area then backfilled with excavated soil. No further					
	<del></del>			/ :						
	<u></u>	<del> </del>	<del></del>					e in the trea	- · · · · · · · · · · · · · · · · · · ·	
					·	<u>iutijer notici</u>	e. The site v	was closed f	or the	
			/	-	day.					
					1				1	
<b> </b>		<del> </del>			<u> </u>		<u>.</u>			
<b></b>										
<b> </b> -	<u> </u>	<del></del>				PER	DIEM TOTA	ALS	ſ	
<u> </u>	<u></u>	_ <u></u> _	V			(in	cluding weekend	is)	- 1	
				_		USED TODAY		3		
						PREVIOUS REPOR	π	28		
						START OF PROJEC	স	31		
TOTAL WORK	HOURS ON JOB	T	WAS A JOB SAFETY M	EETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?	
SITE THIS DAT	E	40	}							
CUMULATIVE T	TOTAL OF WORK		[]YES	ON [ X]			[ ]YES	DOI DO	Ì	
HOURS FROM	PREVIOUS REPORT	420.5				•	-			
TOTAL WORK	HOURS FROM		IF "YES", ATTACH COP	Y OF MEETIN	IG RECORD		IF YEST, ATTACH (	COMPLETED OSHA I	FORM	
START OF PRO	DUECT	460.5	нгот	IS REPORT			то	THIS REPORT		
			PROJECT SA	MPLE L	.og					
	DESCRIPTION	SOIL	WIPE C	ONCRETE	WATER	OTHER		COMMENTS		
S COLLECTED THIS DATE:										
PREVIOUS CU	PREVIOUS CUMULATIVE TOTAL:						`	<del></del>		
TOTAL SAMPL	ES COLLECTED:	<u> </u>				<u> </u>	<u> </u>			

# (NYRS)

## PROJECT QUANTITY SUMMARY

REPORT DATE

		(Please write in categori	es no specified)		Saturday 29-Sep-88			
	. UNIT OF	QUANTITY	PRE	viaus	a	URRENT PROJE	ст	
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL		
TRENCH EXCAVATED	FEET		574			574	I	
TRENCH BACKFILLED	FEET		574			574		
HOPE PIPE REMOVED	FEET	20	574	_		1		
VAULTS REMOVED	EACH							
WELLSINSTALLED	EACH		_ 5			5	j	
HIDPA PIPE INSTALLED	FEET				· <b></b>			
VAULTS INSTALLED	EACH					•		
IMPORTED MATERIAL	CUYD							
WELL CUTTINGS	DRUM		25			25	<u> </u>	
						<u></u>		
				-				
		_ <del></del>		· · · · · · · · · · · · · · · · · · ·		·		
							· · · · · ·	
		<u> </u>		<u> </u>				
			<u>-</u>				+	
			-					
					-	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
				<del></del>				
		<del> </del>			· · · · · · ·	<del></del>		
		<del></del>		····		<del></del>	<u>.</u>	
	······································		USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVA	
PROJECT MAT	ERIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE	
PPE				]		N/A	N/A	
MSQUEEN						N/A	N/A	
DRUMS				25	25	N/A	N/A	
BARRICADE TAPE				400	400	N/A	N/A	
HDPE PIPE	<del></del>	· · · · - · · · · · · · · · · · · · · ·				N/A	N/A	
PRE-CAST VAULTS						N/A	N/A	
	<u></u>					N/A	N/A	
						N/A	N/A	
				<u> </u>		N/A	N/A	
· · · · · · · · · · · · · · · · · · ·		<del></del>				N/A	N/A	
	<del></del>		<del></del>	<del> </del>		N/A	N/A	

PROJECT QUANTITY SUMMARY						
		(continued)			Saturday	28-Sep-88
SP WG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO SEI		BOL M		COMMENTS	
	Refer to daily cost summary sheets attache	d.			<u>,                                     </u>	
			]			
					<u> </u>	
Р	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	5	6	21-Sep-98	
RENTAL CAR	<u> </u>	1	15	16	8-Sep-98	
OFFICE TRAILER		1	15	16	8-Sep-98	
PORTABLE TOILET		11	15	16	8-Sep-98	
RADIOS		3	45_	48	8-Sep-98	
ORGANIC VAPOR MON	ITOR	1	15	16	8-Sep-98	
BOXTRUCK		11	15	16	8-Sep-98	
MINI EXCAVATOR		1	11	12	14-Sep-98	
REMAL MINI EXCAVA	TOR	1	5	6	21-Sep-98	
REWAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	<u> </u>		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	3	4	23-Sep-98	
·						
COMPACTOR						
	·			· 		
					<u>.</u>	
		_				
				_		
				•		

BYTES		QUALITY	CONTRO	L REPORT		REPORT DATE
					Saturday	28-Sep-88
		LOCATION AND	DESCRIPTION OF	FDEFICIENCIES		
		(Materials, Eq	ulpment, Safety, and/or \	Nortmenship)		
		N	lothing to rep	ort		
			•			
		PROJECT	STATUS REPO	ORT		
CHANGE IN CONTR	ACT: CHANGE O	RDER	EXTRA WORK	OTHER		
BID ITEM	DESCRIF	TION OF CHANGE			QUANTITY CHANGE	NEW TOTAL
•						
			-			
REMARKS: (INCLUDE	DIRECTIONS FROM CLIENT, VISITORS, COM	PLIANCE NOTICES, SA	FETY INSPECTIONS, AN	ID OTHER PERTINENT IN	FORMATION)	
		-				
			•	•	•	
			•			
		•				
Attachments:	WRS Tailgate Safety Meeting WRS Quality Control Report	-		•		
				í		
1	20 AB			MAL		
	sw.		<del></del>	<u> </u>	210	
	Joe Anderson/Richard S			N E 17	51-U U 1/12-	
WESTIN	GHOUSE REMEDIATION SERVICE	es, inc.		RADIAN II	NTERNATIONAL, LLC	

WES			DAILY P	RODU	CTION F	REPORT			REPORT DATE		
<b>9</b>								Tuesday	28-8ep-88		
XEL R	DER NO.		TITLE AND LOCATION	;	Sol-Lynn Si	te		REPORT NO.	j		
VRS JOB NO.	4412-98-40	290		Houston	i, Texas			17			
XLENT NAME			<u></u>	F	PROJECT MANAGER						
Texas Na	atural Resource Conse	rvation Com	mission			Joe Anderson/Richard Scott					
MEATHER-AM	Sunny			r	EMPERATURE-A	м	80				
MEATHER PM	ı Sunny			1	EMPERATURE-P	рм 90					
	WESTINGHOUSE / SUBCONTRAC	CTOR WORKFORCE					ION AND DESCRI WORK PERFORM				
*UMBER	TRADE	HOURS	EMPLO	YER				<del>-</del>			
1	Project Manager	8	WRS			:45 <u>am con</u>	ducted safe	ly and produ	<u>ıction</u>		
1	HS/QC Officer	8	WRS	4.	<u>meeting.</u> Driller seti	na up to dri	II DS-3 in ar	eenbelt on v	vest		
1	Operator	10	WRS		bound 1-61	0. Safety L	ite will be o	nsite at 8:30			
1	Contract Labor			4.		traffic contr					
	COMING CADO							or new pipe			
1	Contract Labor	<u></u> .					One load of	<u>embedment</u>	sand		
1	Operator	10	WRS		was receiv						
1	Contract Labor	10						onsite in the			
<u>-</u>	I COMPACE ENDO	<del>                                     </del>	<u> </u>			<u>arive in the</u>	west field o	n the DOT ri	ant of		
<del></del> ,					<u>way.</u> MBS crow	enent one l	our on BCE	3 exploration	.		
		<u> </u>						s area by W	_		
						used agair			TO CICW		
_	<del>                                     </del>							eparted at 6:	30 pm.		
		<del></del>					·				
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			<u> </u>						_		
					1	DEB	DIEM TOT	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		<del></del>				PER	DIEM TOTA	ALS			
						(In	cluding weekend	ls)			
				}		USED TODAY		3			
						PREVIOUS REPOR	τ	34	· i		
						START OF PROJEC	<u>ਸ</u>	37			
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY I	MEETING HELL	O THUS DATE?		WERE THERE AN	LOST TIME ACCIDE	NTS THIS DATE?		
SITE THIS DAT	TE	46									
CUMULATIVE	TOTAL OF WORK		[]YES	DX J NO			[ ]YES	DZ NO			
HOURS FROM	PREVIOUS REPORT	496.5				•					
	(HOURS FROM	540 E	IF YES", ATTACH CO		G RECORD			COMPLETED OSHA	FORM		
START OF PR	:	542.5	<u> </u>	HIS REPORT			10	THIS REPORT			
			PROJECT SA			<u>-</u>					
	DESCRIPTION	SOIL	WPE	CONCRETE	WATER	OTHER		COMMENTS			
s co	LLECTED THIS DATE:										
PREVIOUS CL	REVIOUS CUMULATIVE TOTAL:										
TOTAL SAMP	LES COLLECTED:										

		PROJECT QUA	NTITY S	Y REPORT DATE			
		(Please write in categories n	o specified)		Tuesday 29-8-p-1		
	UNIT OF	QUANTITY	PRE	vious .	α	RRENT PROJEC	ा 💣
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	U
TRENCH EXCAVATED	FEET	69	609			678	-
TRENCH BACKFILLED	FEET	36	609				
HIDPE PIPE REMOVED	FEET		609			609	
VAULTS REMOVED	EACH						
WELLS INSTALLED	EACH	1	6			7	
HOPA PIPE INSTALLED	FEET						
VAULTS INSTALLED	EACH					-	
IMPORTED MATERIAL	CUYD						
WELL CUTTINGS	DRUM	10	29			39	
							··-
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				<u>-</u>	•		
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<u> </u>			<del></del>		<u> </u>		
·		·- <del></del>					
						<del></del>	
				<del> :</del>			<del></del>
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERI	AL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE			<b></b>		<u> </u>	N/A_	N/A
VISQUEEN		<del></del>				N/A	N/A
DRUMS			4	25	29	N/A	N/A
BARRICADE TAPE	<del></del>			、 400	400	N/A	N/A
HDPE PIPE					· · · · · · · · ·	N/A	N/A
PRE-CAST VAULTS			<u> </u>	<u> </u>		N/A_	N/A
EMBEDMENT SAND			1		11	N/A	N/A
						N/A	N/A
	•					N/A	N/A
						N/A	N/A
		·				N/A	N/A

(WES)	PROJECT QUA	NTITY S	REPORT DATE			
<b>Y</b>		(continued)		<del></del>	Tuesday	29-Sep-98
SPE AG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE II		N-JOB		COMMENTS	
<u> </u>	Refer to daily cost summary sheets attached	<b>7.</b>				• • •
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	4					
			======		<del></del>	···
		<del></del>	<del>                                     </del>			
P	ROJECT EQUIPMENT LIST		PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK		1	7	8	21-Sep-98	······································
RENTAL CAR		1	17	18	8-Sep-98	
OFFICE TRAILER		1	17	18	8-Sep-98	
PORTABLE TOILET		. 1	17	18	8-Sep-98	
RADIOS		3	51	54	8-Sep-98	· ·
ORGANIC VAPOR MOR	NITOR	1	17	18	8-Sep-98	
BOXTRUCK		11	17	18	8-Sep-98	
MINI EXCAVATOR		1	13	14	14-Sep-98	
MINI EXCAVA			5	5	21-Sep-98	28-Sep-98
RENTAL COMPRESSO			3	_3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCH	<u> </u>		1.	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE	·· <del>···································</del>	11	5	6	23-Sep-98	
<u></u>	· · · · · · · · · · · · · · · · · · ·	-				
COMPACTOR		,	<del> </del>			
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			<del>                                     </del>			<u> </u>
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(BYRS)		QUA	LITY CONTRO	L REPORT	<b>-</b>	REPORT DATE
					Tuesday	23-3ep-88
		LOCATIO	ON AND DESCRIPTION OF	- DEFICIENCIES		
<del></del> _		(M	eterials, Equipment, Safety, and/or l			
			Nothing to rep	ort		•
	<u> </u>				•	
	•					
	•					
				•		
<del></del>			<u> </u>			<del></del>
		PRO	JECT STATUS REPO	DRT		
CHANGE II	I CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER		
						· <u></u> _
ato ITEM	}	DESCRIPTION OF C	HANGE	-	QUANTITY CHANGE	NEW TOTAL
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		· <u>·</u>	<del></del>			
		<del></del>	_ <del></del> _			
	<u> </u>			. <u>-</u>		
	<u> </u>		·	<u></u>		
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, V	ISITORS, COMPLIANCE NO	TICES, SAFETY INSPECTIONS, AN	D OTHER PERTINENT IN	ORMATION)	
						. <u> </u>
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Attachm	ents: WRS Tailgate Safe	v Meeting				
	WRS Quality Contro			`		
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	DI M			- 11 L	The second second	
	A Swill			11/1/2		
UES	Joe Anderson/R	ichard Scott		TAL	CAN GIRES	
Y	WESTINGHOUSE REMEDIATION	N SERVICES, INC.	$\mathcal{Z}$		ITERNATIONAL, LLC	

		DAILY PF	RODUCTION	REPORT	•		REPORT DATE					
	<u>-</u>	- <del></del>				Wednesday	20-Sep-88					
		TITLE AND LOCATION	Sol-Lynn	Site	f	REPORT NO.						
4412-98-4	10290		Houston, Texas		<u> </u>	18						
			PROJECT MAN									
ural Resource Cons	servation Com	mission		Joe Anderso	on/Richard Sc	ott						
Sunny			TEMPERATUR	TEMPERATURE-AM 80								
Sunny	<u> </u>		TEMPERATUR	TEMPERATURE-PM 90  LOCATION AND DESCRIPTION								
WESTINGHOUSE / SUBCONTF	RACTOR WORKFORD	E		_	WORK PERFORM							
TRADE	HOURS	. EMPLOY		<u> </u>								
Project Manager	8	WRS		t 6:45 am con	ducted safet	y and produ	<u>uction</u>					
IS/QC Officer	8	WRS	meeting. WRS cre	_	traffic contro	land Best D	rillina					
Operator	10	WRS	began to	WRS crew set up the traffic controland Best Drilling began to drill MW-29 in the greenbelt on west bound I-								
Contract Labor			<u>610.</u>				_					
Contract Labor			WRS crew continued digging trench for new pipe									
	10	WRS	installation (235 feet).  Houston Concrete Cutting sawed the drive entrance in									
Operator	10	VVICS		Right of Way								
Contract Labor	10	<del> </del>		ollected a so								
				nen WRS crev	<u>v found elect</u>	rical compo	onents_					
				<u>cavating.</u> ontrol was lai	id in the ares	e area by M	IDS craw					
				be used again			AIVO CIEM					
				ivered a fax r			<u>r_</u>					
		· · · · · · · · · · · · · · · · · · ·	specifica		· <del></del>							
		<del> </del>	Site secu	<u>ured and all e</u>	mployees de	parted at 6:	30 pm.					
		<del> </del>	<b></b>	•								
<u></u>		<u> </u>				•						
	·											
				PER	DIEM TOTA	ALS						
				(it	ncluding weekend	s)						
<u> </u>				USED TODAY		3						
				PREVIOUS REPOR	रा	37						
<del></del>				START OF PROJE		40						
OURS ON JOB		WAS A JOB SAFETY M	EETING HELD THIS DATE?		WERE THERE ANY		ENTS THIS DAT					
	46	]										
OTAL OF WORK		[]YES	[X] NO		[ ]YES	(X) NO						
REVIOUS REPORT	542.5	=		•								
OURS FROM	500 F		Y OF MEETING RECORD		IF YEST, ATTACH C		FORM					
ECT	588.5	TOTH	S REPORT	<del></del>	10	THIS REPORT	<del></del>					
		PROJECT SA										
ESCRIPTION	SOIL	WPE C	ONCRETE WATER	OTHER	-	COMMENTS						
SC S DATE:		<del>                                     </del>			<del> </del>							
LATIVE TOTAL:		<u> </u>					<del></del>					
COLLECTED:	ţ		į	Į.	ļ							

N/A

N/A

#### **PROJECT QUANTITY SUMMARY** REPORT DATE Wednesday 20-Sep-98 (Please write in categories no specified) UNIT OF QUANTITY PREVIQUS CURRENT PROJECT MEASURE THIS DATE CUMULATIVE TOTAL TOTAL DESCRIPTION FEET 235 678 913 TRENCH EXCAVATED FEET 644 TRENCH BACKFILLED 644 609 HOPE PIPE REMOVED **FEET** 609 **EACH** VAULTS REMOVED **EACH** 7 8 WELLS INSTALLED HDPA PIPE INSTALLED FEET EACH VAULTS INSTALLED CU YD IMPORTED MATERIAL DRUM 5 44 WELL CUTTINGS 39 TOTAL USE USED TODAY PREVIOUS USE REMAIN ON EST. REMOVAL **PROJECT MATERIAL LIST** (DAYS) (DAYS) SITE DATE (EACH) PPE N/A N/A VISQUEEN N/A N/A DRUMS 39 44 N/A N/A BARRICADE TAPE 400 400 NA N/Α HDPE PIPE N/A N/A PRE-CAST VAULTS N/A N/A EMBEDMENT \$AND 1 N/A N/A 1 N/A N/A N/A N/A N/A N/A

	Y	141. 4	REPORT DATE			
	<u> </u>	(continued)	<u> </u>		Wednesday	30-Sep-88
SP DAVG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE II		HH-dOB		COMMENTS	
	Refer to daily cost summary sheets attache	a.	}			<u> </u>
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			<del></del>			
P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	8	9	21-Sep-98	
RENTAL CAR		1	18	19	8-Sep-98	
OFFICE TRAILER	,	1	18	19	8-Sep-98	
PORTABLE TOILET		1.	18	19	8-Sep-98	
RADIOS		3	54	57	8-Sep-98	-
ORGANIC VAPOR MON	NITOR :	1	18	19	8-Sep-98	
BOXTRUCK		1	18	19	8-Sep-98	
MINI EXCAVATOR		1	14	15	14-Sep-98	
P L MINI EXCAVA	TOP		5	5	21-Sep-98	28-Sep-98
RENTAL COMPRESSO			3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK			1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1		7		10-oeb-an
RENTAL BACKHOE		1	6		23-Sep-98	
COMPACTOR			<u> </u>	·		
					<u> </u>	· · · · ·
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		<u> </u>				<u> </u>
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(WRS		QUA	LITY CONTRO	L REPORT		REPORT DATE
					Wednesday	20-Sep-88
		LOCATI	ON AND DESCRIPTION OF	DEFICIENCIES		
		<u> </u>	fatorials, Equipment, Safety, and/or \	/Vorkmenship)		
			Nothing to rep	ort		<b>5</b> .
•	}					
	<u> </u>	PRO	JECT STATUS REPO	ORT		
CHANGE IN	CONTRACT:	CHANGE ORDER	☐ EXTRA WORK	OTHER		
BIDITEM		DESCRIPTION OF C	HANGE		QUANTITY CHANGE	NEW TOTAL
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						_
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-				<del></del>	<u></u>	
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DEMARKS.					rom 44 TiChn	
REMARKS:	(INCLUDE DIRECTIONS FR	OM CLIENT, VISITORS, COMPLIANCE NO	TICES, SAFETY INSPECTIONS, AN	DOTHER PERTINENT IN	FORMATION)	
		•				•
	<del> </del>			. <u> </u>		
Attachm		ilgate Safety Meeting uality Control Report		• .	<b></b> .	
	11/10 00	ancy control (report				
	•			_	( a )	
	00			- M		
	CSI				7	
	Joe And	lerson/Richard Scott	<del></del> ,	MC	vians bener	
	WESTINGHOUSE RE	MEDIATION SERVICES INC		RADIAN II	NTERNATIONAL, LLC	

#### PROJECT QUANTITY SUMMARY REPORT DATE (Please write in categories no specified) **Thursday** 1-Oct-98 5 **UNIT OF PREVIOUS CURRENT PROJECT** QUANTITY DESCRIPTION MEASURE THIS DATE **CUMULATIVE TOTAL** TOTAL 913 FEET 195 1,108 TRENCH EXCAVATED FEET 644 644 TRENCH BACKFILLED 609 HOPE PIPE REMOVED FEET 609 **EACH** 3 VAULTS REMOVED 8 **EACH** 1 9 WELLS INSTALLED HOPA PIPE INSTALLED FEET VAULTS INSTALLED EACH **CU YD** MPORTED MATERIAL DRUM 4 44 WELL CUTTINGS 48 USED TODAY PREVIOUS USE **TOTAL USE** REMAIN ON EST. REMOVAL PROJECT MATERIAL LIST (EACH) (DAYS) (DAYS) SITE DATE PPE N/A NA VISQUEEN N/A NA DRUMS 44 48 N/A N/A BARRICADE TAPE 400 400 N/A N/A HDPE PIPE N/A N/A PRE-CAST VAULTS N/A N/A EMBEDMENT SAND 1 1 N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

(1778)	PROJECT QUANTITY SUMMARY						
	<u>,                                     </u>	(continued)		· -	Thursday	1-Oct-88	
SPE. /VG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE II		IN-JOB		COMMENTS		
·	Refer to daily cost summary sheets attache	d.					
			•				
	·		•				
·							
Р	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL	
		(EACH)	(DAYS)	(DAYS)	DATE	DATE	
CREW TRUCK		1	9	10	21-Sep-98	:	
RENTAL CAR		1	19	20	8-Sep-98		
OFFICE TRAILER		1	19	20	8-Sep-98		
PORTABLE TOILET		1	19	.20	8-Sep-98		
RADIOS		3	57	60	8-Sep-98		
ORGANIC VAPOR MON	IITOR	1	19	20	8-Sep-98		
BOXTRUCK		1	19	20	8-Sep-98		
MINI EXCAVATOR		1	15	16	14-Sep-98		
RE MINI EXCAVA	TOR		5	5	21-Sep-98	28-Sep-9	
RENTAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-93	
RENTAL DUMP TRUCK			1	1	15-Sep-98	15-Sep-98	
RENTAL BACKHOE		1	7	8_	23-Sep-98		
COMPACTOR							
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LOCATION AND DESCRIPTION OF DEPTGENCIES	WRS		QU	ALITY CONTR	OL REPORT	•	REPORT DATE
PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT  PROJECT STATUS REPORT	Y					Thursday	1-Oct-68
PROJECT STATUS REPORT  PROJECT STATUS REPORT  HANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  DITEM DESCRIPTION OF CHANGE OUAVITY CHANGE NEW TOTAL  DITEM DESCRIPTION OF CHANGE OUAVITY CHANGE NEW TOTAL  BMARKS: (NALIDE DESCRIVE FROM CLEAR, VISTORS, COMPLIANCE NOTICES, EMETY RESPECTIONS, AND UTHER PERTINENT INFORMATION)  LETTER WIRE Taligate Safety Meeting WIRE Quality Control Report  JOS Anderson/Richard Scott			LOCA	ATION AND DESCRIPTION	OF DEFTCLENCIES		
PROJECT STATUS REPORT  HANGE IN CONTRACT: CHANGE ORDER EXTRAWORK OTHER  DITEM DESCRIPTION OF CHANGE GUANTITY CHANGE NEWTOTAL  DESCRIPTION OF CHANGE GUANTITY CHANGE NEWTOTAL  BEANNES: (INCLIDE DIRECTIONS FROM CLEAT, VISITORS, COMPLANCE NOTICES, SAFETY MERICIPANS, AND OTHER PERTINENT INFORMATION)  Attachments: WRS Talgate Safety Meeting WRS Quality Control Report  JOS Anderson/Richard Scott	•			(Materials, Equipment, Safety, and	dor Workmenship)		
HANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  DITEM DESCRIPTION OF CHANGE CUANTITY CHANGE NEW TOTAL  DESCRIPTION OF CHANGE CUANTITY CHANGE NEW TOTAL  BMARKS: (INCLIDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT INFORMATION)  WERE Talligate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							·· —
HANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  DITEM DESCRIPTION OF CHANGE OUANTITY CHANGE NEW TOTAL  BMARKS: (INCLIDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  METachments: WRS Tallgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
HANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  DITEM DESCRIPTION OF CHANGE OUANTITY CHANGE NEW TOTAL  BMARKS: (INCLIDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  METachments: WRS Tallgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
HANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  DITEM DESCRIPTION OF CHANGE CUANTITY CHANGE NEW TOTAL  BMARKS: (INCLIDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  WERE Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
HANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  DITEM DESCRIPTION OF CHANGE CUANTITY CHANGE NEW TOTAL  BMARKS: (INCLIDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  WERE Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
HANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  DITEM DESCRIPTION OF CHANGE OUANTITY CHANGE NEW TOTAL  BMARKS: (INCLIDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  METachments: WRS Tallgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
HANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  DITEM DESCRIPTION OF CHANGE OUANTITY CHANGE NEW TOTAL  BMARKS: (INCLIDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  METachments: WRS Tallgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
HANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  DITEM DESCRIPTION OF CHANGE OUANTITY CHANGE NEW TOTAL  BMARKS: (INCLIDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  METachments: WRS Tallgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							,
HANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  DITEM DESCRIPTION OF CHANGE CUANTITY CHANGE NEW TOTAL  BMARKS: (INCLIDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  WERE Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
DITEM DESCRIPTION OF CHANGE QUANTITY CHANGE NEWTOTAL  BEARROS: (INCLUDE DESCRIPTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  Attachments: WRS Taligate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott			PF	ROJECT STATUS RE	PORT		
DITEM DESCRIPTION OF CHANGE QUANTITY CHANGE NEWTOTAL  BEARROS: (INCLUDE DESCRIPTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  Attachments: WRS Taligate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott			•				
DITEM DESCRIPTION OF CHANGE QUANTITY CHANGE NEWTOTAL  BEARROS: (INCLUDE DESCRIPTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINSHT INFORMATION)  Attachments: WRS Taligate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott	CHANGE IN	I CONTRACT:	CHANGE ORDER	□ EXTRA WORK	[] OTHER		
EMARKS: (INCLUDE DESCRICANS FROM CLENT, VISITORS, COMPLIANCE NOTICES, SAFETY NISPECTIONS, AND OTHER PERTINENT INFORMATION)  Attachments: WRS Tallgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott					Пошек	<del></del>	
EMARKS: (INCLUDE DESCRICANS FROM CLENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT INFORMATION)  Attachments: WRS Tallgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott		T	PERCONTROL	ź outlos		CHAPTEY CHAPCE	MENTOTAL
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott	ZUII CM		DESCRIPTION	r Grange		GOANTH CHANGE	REWIOIAL
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott	· · ·	<u> </u>					
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott		<u> </u>	<del></del>		· · · · · · · · · · · · · · · · · · ·		
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott		-					
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott				· · · · · · · · · · · · · · · · · · ·			·
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott						,	
WRS Quality Control Report  Joe Anderson/Richard Scott	REMARKS:	(INCLUDE DIRECTIONS FF	ROM CLIENT, VISITORS, COMPLIANCE	NOTICES, SAFETY INSPECTIONS	S, AND OTHER PERTINENT IN	FORMATION)	
WRS Quality Control Report  Joe Anderson/Richard Scott							
WRS Quality Control Report  Joe Anderson/Richard Scott							
WRS Quality Control Report  Joe Anderson/Richard Scott						•	-
WRS Quality Control Report  Joe Anderson/Richard Scott				•			
WRS Quality Control Report  Joe Anderson/Richard Scott							
WRS Quality Control Report  Joe Anderson/Richard Scott							
WRS Quality Control Report  Joe Anderson/Richard Scott							
WRS Quality Control Report  Joe Anderson/Richard Scott						·	
Joe Anderson/Richard Scott	Attachm				•		•
		AAKS G	uziny Control Report				•
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		A	all.				
	(des)	Joe An	derson/Richard Scott				
				- >.	RADIAN I	NTERNATIONAL. LLC	

IVES		_	DAILY PR	ODUCTION	REPORT			REPORT DATE		
							Friday	2-Oct-98		
D CORE	DER NO.		TITLE AND LOCATION	Sol-Lynn S	it <del>o</del> -	ı	REPORT NO.			
WRS JOB NO.	4412-98-40	290		Houston, Texas			20			
CLIENT NAME				PROJECT MANAG	PROJECT MANAGER					
Texas Na	tural Resource Conse	vation Com	mission		Joe Anderson/Richard Scott					
WEATHER-AM	Sunny			TEMPERATURE-	w	80				
WEATHER-PM	Sunny			TEMPERATURE-PM			90			
	WESTINGHOUSE / SUBCONTRAC	TOR WORKFORCE	:			TION AND DESCRIF WORK PERFORMI				
NUMBER	TRADE	HOURS	EMPLOYE	Onsite at 0	6:45 am cond	ducted safet	y and produ	ction		
1	Project Manager	8	WRS		Arranged for			fice_		
1	HS/QC Officer	8	WRS		the east boung began to			4 shop.		
1	Operator	11	WRS	The electr	icans placed					
1	Contract Labor	11	Greenfield	and today	•		_	_		
	2000	+			continued o					
<u> </u>					n (360 feet) i					
1	Operator	11	WRS		y Radian to e e it.  While e					
				<u> </u>						
					of the mound WRS encountered a strong odor, the Radian oversight stated that it gave everyone a					
				-	WRS move					
				the mound	i. After som	e time WRS	went back t	<u>o</u>		
		_			n the northe					
•					i the trenchi	•				
<del></del>				1	by Safety L					
	<del></del>	-	·		proved the r					
ļ					and will be nd all emplo	· ·				
			,					·		
					DED.	DIEM TOTA	1			
<b></b> -		<u></u>				DIEM TOTA				
· · · · ·			-		(in	cluding weekend	is)			
					USED TODAY		3			
			ļ		PREVIOUS REPOR	τ	43			
					START OF PROJEC	et .	46			
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY ME	ETING HELD THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?		
SITE THIS DAT	TE	49								
	TOTAL OF WORK PREVIOUS REPORT	637.5	[] YES	DX ] NO	•	[ ]YES	(X) NO	į		
-	HOURS FROM		IE "YES" ATTACH CODY	OF MEETING RECORD		IE "YES" ATTACH	COMPLETED OSHA	FORM		
START OF PR		686.5	į	S REPORT			THIS REPORT	. 5.411		
				ADIELOG						
	DESCRIPTION	SOIL	PROJECT SAM	ONCRET   WATER	OTHER	<u> </u>	COMMENTS			
S ES COL	LLECTED THIS DATE:	7			1		3421110			
	MULATIVE TOTAL:						-	<u>.</u>		
TOTAL SAMPL	LES COLLECTED:	1	† ·         †				••			
				<u> </u>		<u> </u>	-			

## (BYRS)

### PROJECT QUANTITY SUMMARY

REPORT DA

		(Please write in categori	es no specified)	·		Friday	2-Oct-98
	UNIT OF	QUANTITY	PRE	v <del>io</del> us	CI	JRRENT PROJE	ст 🦪
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET	360	1108		1,468		
TRENCH BACKFILLED	FEET		644	644		644	
HDPE PIPE REMOVED	FEET	55	609			664	
VAULTS REMOVED	EACH						
WELLS INSTALLED	EACH	1	9			10	
HOPA PIPE INSTALLED	FEET			·			
VAULTS INSTALLED	EACH						
ELECTRICAL CONDUIT	FEET	390		<u>-</u> .		390	
WELL CUTTINGS	DRUM	10	48			58	
•						· · · · · · · · · · · · · · · · · · ·	
				· -			
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MAT	TERIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
VISQUEEN	<u> </u>	-				N/A	N/A
DRUMS			10	48	58	N/A	N/A
BARRICADE TAPE				- 400	400	N/A	N/A
HDPE PIPE						N/A	N/A
PRE-CAST VAULTS						N/A	N/A
EMBEDMENT SAND			2	- 1	3	N/A	N/A
			_		-	N/A	N/A
						N/A	N/A
					· · · · · · · · · · · · · · · · · · ·	N/A	N/A
	·	<u></u>				N/A	N/A

	PROJECT QUA	NTITY S	UMMAR	Y		REPORT DATE
		(continued)	· · · · · · · · · · · · · · · · · · ·		Friday	2-Oct-88
SP MG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		IN-⊌ОВ		COMMENTS	
	Refer to daily cost summary sheets attache	ed.				
	·					
				·····		
Р	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK			10	11	21-Sep-98	
RENTAL CAR	<u> </u>	1	20	21	8-Sep-98	
OFFICE TRAILER		1	20	21	8-Sep-98	
PORTABLE TOILET		1	20	21	8-Sep-98	
RADIOS		3	60	ස	8-Sep-98	
ORGANIC VAPOR MON	ator .	1	20	21	8-Sep-98	
BOXTRUCK		1	20	21	8-Sep-98	
MINI EXCAVATOR		1	16	17	14-Sep-98	
REAL MINI EXCAVA	TOR		5	5	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	· · · · · · · · · · · · · · · · · · ·		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1 .	8	9	23-Sep-98	
COMPACTOR						
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	<del></del>	<del>                                     </del>			<del> </del>	· · · · · · · · · · · · · · · · · · ·

(WTS)	QUALITY CONTROL REPORT						
<u> </u>				Friday	2-Oct-68		
	LOCATI	ON AND DESCRIPTION OF	DEFICIENCIES				
		atorials, Equipment, Safety, and/or V	Vortunanship)				
		Nothing to rep	ort				
1							
				-			
	PRO	JECT STATUS REPO	RT				
CHANGE IN CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER				
					-		
METICIEM	DESCRIPTION OF C	HANGE		QUANTITY CHANGE	NEW TOTAL		
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REMARKS: (INCLUDE DIRECTIONS	C EDOMA CHIESTE MOODONG COMEN MANCE NO	STOCK CAPTLY BIODECTICALS AN		208MATION D	<u> </u>		
CEMPANS: (INCLUDE DIRECTIONS	S FROM CLIENT, VISITORS, COMPLIANCE NO	TICES, SAFETY INSPECTIONS, AN	DOTHER PERINGENT IN	Oran Inchi			
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	Tailgate Safety Meeting Quality Control Report		•				
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	Verse	<u> </u>					
Joe A	Anderson/Richard Scott						
WESTINGHOUSE	REMEDIATION SERVICES, INC.		RADIAN II	ITERNATIONAL, LLC			

IVRS			DAILY P	RODU	CTION	REPORT			REPORT DATE	
								Saturday	3-Oct-98	
DE OF	RDER NO.		TITLE AND LOCATION	- <del>-</del>	Sol-Lynn Si	te	F	REPORT NO.		
WRS JOB NO	4412-98-4	40290		Houstor	n, Texas			21	١	
CLIENT NAME					PROJECT MANAG	ER	· · · · · · · · · · · · · · · · · · ·			
Texas N	atural Resource Cons	servation Comr	nission			Joe Anderso	n/Richard Sc	ott	·	
WEATHER-AN	M Sunny			ŀ	TEMPERATURE-A	м	80			
WEATHER-PA	sunny		TEMPERATURE		TEMPERATURE-P					
	WESTINGHOUSE / SUBCONTR	ACTOR WORKFORCE					TON AND DESCRIP WORK PERFORME			
NUMBER	TRADE	HOURS	EMPLO	YER	Onsite at 6	:45 am cond	lucted safet	y and produ	<u>ction</u>	
	1 Project Manager	8	WRS				t up traffic c	ontrol on th	e east_	
	1 HS/QC Officer	8	WRS		<u>bound land</u> Best Drillin	e on I-610. ng began to	drill MW-32			
	1 Operator	11	WRS				ing trenchin	g and remov	ing pipe	
	1 Contract Labor	22	Greenfield				the east side	•		
<u> </u>	T Contract Educi		O O O O MICIO				line). The p			
							sewer line (			
	1 Operator	12	WRS		in the mou departed a		secured an	d all employ	<u>ees</u>	
					<u>ueparteu a</u>	<u>t 6:30 piii.</u>				
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<del> </del>	<del>                                     </del>		<u></u>			Ì		1		
						(in	cluding weekend			
<b> </b>						USED TODAY		3		
<u> </u>						PREVIOUS REPOR	7	46		
				·		START OF PROJEC	т	49		
TOTAL WOR	K HOURS ON JOB		WAS A JOB SAFETY I	MEETING HELI	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?	
SITE THIS DA	ATE	61						•		
Į.	E TOTAL OF WORK	686.5	[]YES	(X) NO		•	[]YES	рд но		
<del></del>	M PREVIOUS REPORT	300.0	IE WEST ATTACUES	DV OC MCCTI	NG BECORD		IE "YEQ" ATTACLLO	OMBI ETER OCUA (	EODM .	
START OF P	K HOURS FROM ROJECT	747.5	IF "YES", ATTACH CO	HIS REPORT	IG RECORD		IF "YES", ATTACH O	THIS REPORT	-UKM	
			<u> </u>			-			·	
	DESCRIPTION		PROJECT SA	CONCRET	OG WATER	OTHER		COMMENTS		
		SUIL	VAILE	CONCRET	WATER	Jinek		COMMENTS		
S COLLECTED THIS DATE:					<del>                                     </del>					
<del></del>	PREVIOUS CUMULATIVE TOTAL:									
TOTAL SAME	PLES COLLECTED:		L			I	l	<del></del>		

(No.		PROJECT QUA	NTITY S	SUMMAR	Y		REPORT DATE
		(Please write in categories r	no specified)			Saturday	3-Oct-98
	UNIT OF	QUANTITY	PRE	vieus	Cl	JRRENT PROJEC	т
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	•
TRENCH EXCAVATED	FEET	130	1468			1,598	
TRENCH BACKFILLED	FEET		644			644	
HDPE PIPE REMOVED	FEET	200	664			864	
VAULTS REMOVED	EACH						
WELLS INSTALLED	EACH	1	10			11	
HDPA PIPE INSTALLED	FEET						
VAULTS INSTALLED	EACH						
ELECTRICAL CONDUIT	FEET		390			390	
WELL CUTTINGS	DRUM	6	58			64	
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			<u> </u>				
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERIAI	L LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE			ļ			N/A	N/A
VISQUEEN		<del></del>	<u> </u>			N/A	N/A
DRUMS		<u></u>	6	58	64	N/A	N/A
BARRICADE TAPE	<u>.</u>			400	400	N/A	N/A
HDPE PIPE			ļ			N/A	N/A
PRE-CAST VAULTS			<u> </u>			N/A	N/A
EMBEDMENT SAND			<del>  -</del>	3	. 3	N/A	N/A
						N/A	N/A
						N/A	N/A
			ļ			N/A	N/A
			<u> </u>	<u> </u>	L	N/A	N/A

WRS	PROJECT QUA			Y		REPORT DATE
		(continued)			Saturday	3-Oct-98
SP WG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE II	NCORPORATED	IN-JOB		COMMENTS	
	Refer to daily cost summary sheets attache	d.	_			
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Р	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL,	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK	· · ·	1	11	12	21-Sep-98	
RENTAL CAR		1	21	22	8-Sep-98	
OFFICE TRAILER		1	21	22	8-Sep-98	
PORTABLE TOILET		1	21	22	8-Sep-98	
RADIOS		3	63	66	8-Sep-98	
ORGANIC VAPOR MON	NITOR	11	21	22	8-Sep-98	
BOXTRUCK		1	- 21	22	8-Sep-98	
MINI EXCAVATOR		1	17	18	14-Sep-98	
REAL MINI EXCAVA	TOR		5	5	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	<u> </u>		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	9	10	23-Sep-98	
COMPACTOR						
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(BYRS)		REPORT DATE			
	·			Saturday	3-Oct-98
	LOCATI	ION AND DESCRIPTION OF	DEFICIENCIES		
		Asterials, Equipment, Safety, and/or V	Vorkmenship)	<u> </u>	
		Nothing to rep	ort		•
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·					:
<del></del>	PRO	JECT STATUS REPO	ORT .	<del></del>	<del></del>
CHANGE IN CONTR	ACT: CHANGE ORDER	☐ EXTRA WORK	OTHER		
BIDITEM	DESCRIPTION OF C	HANGE		QUANTITY CHANGE	NEW TOTAL
		·		<u> </u>	
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				<u> </u>	
REMARKS: (INCLUDE	DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NO	OTICES, SAFETY INSPECTIONS, AN	D OTHER PERTINENT INF	ORMATION)	
<del> </del>					<del></del>
Attachments:	WRS Tailgate Safety Meeting		~		
	WRS Quality Control Report				
<i></i>			-		
	V ple				
	Joe Anderson/Richard Scott		-		
WESTIA	GHOUSE REMEDIATION SERVICES, INC.	·	RADIAN IN	ITERNATIONAL, LLC	

		,	DAILY PRO	DUCTION	REPORT			REPORT DATE		
							Monday	5-Oct-98		
DE ORD	DER NO.		TITLE AND LOCATION	Sol-Lynn S	it <del>o</del> -	1	REPORT NO.			
WRS JOB NO.	4412-98-4	0290	l H	ouston, Texas			22			
CLIENT NAME				· · · · · · · · · · · · · · · · · · ·	PROJECT MANAGER					
Texas Na	tural Resource Cons	ervation Com	mission		Joe Anderso	n/Richard Sc	ott			
WEATHER-AM	Rain			TEMPERATURE-	w	80				
WEATHER-PM	Pt. Sunny			TEMPERATURE-		80's				
	WESTINGHOUSE / SUBCONTRA	ACTOR WORKFORCE				TON AND DESCRIF WORK PERFORM				
NUMBER	TRADE	HOURS	EMPLOYER	Onsite at 6	6:45 am cond	lucted safet	y and produ	ction		
1	Project Manager	8	WRS	meeting.	<b>-</b> 4-					
1	HS/QC Officer	8	WRS		ng began to began diggi		n and remov	ina nine		
1	Operator	5	WRS		orthwest co					
		10	Greenfield		Due to rain r					
<u> </u>	Contract Labor		Greenneid		s. The elect					
					departed th		00 pm. This	<u>is a RAIN</u>		
1	Operator	10.5	WRS	DAY. Thi	s is rain day	#8				
				Site secur	ed and all en	nnlovees de	narted at 6:3	ın nen		
	İ	<u> </u>		One seem	ca ana an ci	iipioyees de	parteu at v.u	<u>ю рии.</u>		
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<u>-</u>	<u> </u>	<del></del>								
<u> </u>		<del>_</del>								
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					PER	DIEM TOTA	LS			
l			ĺ	ļ	(inc	cluding weekend	is)			
					USED TODAY	,	3			
					PREVIOUS REPOR	<del>,</del>	49			
<b> </b>					START OF PROJEC		52	·		
TOTAL MODIC	HOURS ON 108		1440 A 100 CAFFTY MEET	THE DATES	STACT OF PROJEC			\		
SITE THIS DAT	HOURS ON JOB E	41.5	WAS A JOB SAFETY MEET	ING RELUTING DATE?		WERE INCKE ANY	LOST TIME ACCIDE	AIS IMS DATE?		
	TOTAL OF WORK		[]YES	ON[X]		[]YES	[X] NO			
HOURS FROM	PREVIOUS REPORT	747.5	_		•					
TOTAL WORK	HOURS FROM		IF "YES", ATTACH COPY O	F MEETING RECORD		IF "YES", ATTACH C	OMPLETED OSHA F	ORM		
START OF PRO	DJECT	789	TO THIS F	REPORT		то	THIS REPORT			
			PROJECT SAMI	PLE LOG						
	DESCRIPTION	SOIL	WPE CON	ICRET WATER	OTHER		COMMENTS			
s s cou	LECTED THIS DATE:			·						
PREVIOUS CU	MULATIVE TOTAL:									
TOTAL SAMPLES COLLECTED:										

(WIRS)	F	ROJECT QU	ANTITY S	UMMAR	Y	<u>·</u>	REPORT DATE
		{Please write in categorie	no specified)			Monday	5-Oct-98
	UNIT OF	QUANTITY	PRE	dous .	CI	JRRENT PROJEC	et 💮
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET	40	1598			1,638	· · · · · · · · · · · · · · · · · · ·
TRENCH BACKFILLED	FEET		644			644	
HDPE PIPE REMOVED	FEET	40	864			904	
VAULTS REMOVED	EACH						
WELLS INSTALLED	EACH	1	11			12	
HDPA PIPE INSTALLED	FEET						
VAULTS INSTALLED	EACH						
ELECTRICAL CONDUIT	FEET		390			390	
WELL CUTTINGS	DRUM	10	64			74	
							·
			<del> </del>				
				·- <u>-</u>			
•							
		- <del></del>					
<u> </u>							
<u> </u>	·						
						<u></u>	
				•			
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATE	RIAL LIST	·	(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
VISQUEEN						N/A	N/A
DRUMS			10	64	74	N/A	N/A
BARRICADE TAPE				400	400	N/A	N/A
HDPE PIPE						N/A	N/A
PRE-CAST VAULTS						N/A	N/A
EMBEDMENT SAND				- 3	3	N/A	N/A
						N/A	N/A
						N/A	N/A
						N/A	N/A
						N/A	N/A

	PROJECT QUA	NTITY S	UMMAR'	Y		REPORT DATE
<u> </u>	<u> </u>	(continued)	<del></del>		Monday	8-Oct-98
SF WG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE I		BOLNI		COMMENTS	
	Refer to daily cost summary sheets attache	<b>d.</b> ,	ļ			<u>·</u> ]
	,		}			
	•					
				-		<u></u>
Р	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	12	13	21-Sep-98	
RENTAL CAR		1	22	23	8-Sep-98	•
OFFICE TRAILER		1	22	23	8-Sep-98	
PORTABLE TOILET		1	22	23	8-Sep-98	
RADIOS		3	66	69	8-Sep-98	
ORGANIC VAPOR MON	NITOR	1	22	23	8-Sep-98	
BOXTRUCK		1	22	23	8-Sep-98	
MINI EXCAVATOR		1	18	19	14-Sep-98	
R L MINI EXCAVA	TOR		5	5	21-Sep-98	28-Sep-98
RENTAL COMPRESSO			3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK			1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	10	11	23-Sep-98	· ·
					,	
COMPACTOR						
	· · · · · · · · · · · · · · · · · · ·					
		<del> </del>				·
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		<del>                                     </del>		<del> ,</del>	<del> </del>	
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		<del>  · · · · · · · · · · · · · · · · · · ·</del>	-		<del>                                     </del>	<del> </del>
H				,		
		<u> </u>	<u> </u>			<del> </del>
		L	<u> </u>	<u> </u>		

WRS	QUALITY CONTROL REPORT							
	Monday							
	LOCAT	ION AND DESCRIPTION O	F DEFICIENCIES					
		Anterials, Equipment, Safety, and/or	Workmanship)					
		Nothing to rep	oort					
	•		•					
	PRO	JECT STATUS REP	ORT					
				·				
CHANGE IN CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER					
•		<b>_</b>	<u> </u>					
BID ITEM	DESCRIPTION OF (	CHANGE		QUANTITY CHANGE	NEWTOTAL			
		· · · · · · · · · · · · · · · · · · ·						
				·····				
					<del>                                     </del>			
REMARKS: (INCLUDE DIREC			AND CONTROL OF THE REAL PROPERTY AND	CODE ATTOM	<u> </u>			
CENTRAL (NOUDE DIREC	TIONS FROM CLIENT, VISITORS, COMPLIANCE N	DIICES, SAFETY INSPECTIONS, A	NO OTHER PERIMENT IN	PORMATION)				
					r .			
<del></del>			<del></del>					
	VRS Tailgate Safety Meeting		•	•				
V	VRS Quality Control Report							
1-11	As		<u>~</u> .					
- Se								
Je Je	e Anderson/Richard Scott							
	USE REMEDIATION SERVICES, INC.		RADIAN II	NTERNATIONAL, LLC				

(V/RS)		<del>, · · · · · · · · · · · · · · · · · · ·</del>	DAILY F	PRODU	ICTION	REPORT			REPORT DATE
					Sol-Lynn S	:: <b></b>		Tuesday	6-Oct-98
	RDER NO.		TITLE AND LOCATIO		-	ile .	'	REPORT NO.	
WRS JOB NO.		0290			n, Texas			23	
CLIENT NAME Texas N	⊫ Iatural Resource Conse	ervation Com	mission	1	PROJECT MANAGE		on/Richard So	cott	
WEATHER-AN					TEMPERATURE-4	· · · · · · · · · · · · · · · · · · ·	80		
WEATHER-PA					TEMPERATURE-F		80's		
	WESTINGHOUSE / SUBCONTRA	ACTOR WORKFORCE	<u> </u>	<del>-</del>		LOCAT	TION AND DESCRIPTION AND DESCR		<del></del>
NUMBER	TRADE	Hours	EMPI	LOYER	Onsite at	6:45 am con	ducted safe	ty and produ	ction
	1 Project Manager	8	WRS	3	meeting.				
	1 HS/QC Officer	8	WRS	3				n trenches. 1	<u>ihis is a</u>
	1 Operator	5	WRS		KAIN DA	/. This is ra	In day # 5		
		10	Greenfield		Site secu	red and all er	mployees de	eparted at	<u> </u>
	1 Contract Labor	10	Greenmen		pm.				
	1 Operator	10.5	WRS	3					
				•					,
<b></b>	<del> </del>	-	-		1				·
		+			†				
	•.				<u> </u>				
		<u> </u>	<del> </del>		<u> </u>				
<b> </b>	<del> </del>	<u> </u>	<del>                                     </del>		<u> </u>				-
<del> </del> -	+				<del> </del>			<del></del>	
<del>                                     </del>	<del>                                     </del>		<b>†</b>		1	PER	DIEM TOTA	ALS	
	1		1		1	(in	cluding weekend	ds)	
		<del> </del>	†		1	USED TODAY		3	•
<del> </del> -	<del></del>		<del> </del>		-		<del></del>		
<del> </del> -					4	PREVIOUS REPOR	(T	52	
<u></u>						START OF PROJEC	СТ	55	
l	RK HOURS ON JOB	11.5	WAS A JOB SAFETY	Y MEETING HEI	LD THIS DATE?		WERE THERE ANY	Y LOST TIME ACCIDE	ENTS THIS DATE?
CUMULATIVE	ATE E TOTAL OF WORK	41.5	[] YES	סא נאַן	`		[]YES	ON [X]	
1	M PREVIOUS REPORT	789	(1.20	fo 1	,	`	[1,	(v) we	
TOTAL WORK	RK HOURS FROM	830.5	IF "YES", ATTACH O	COPY OF MEET				COMPLETED OSHA F	FORM
===			PROJECT S						
	DESCRIPTION	SOIL	WIPE	CONCRET		OTHER	Τ	COMMENTS	
S S C	COLLECTED THIS DATE:								
	CUMULATIVE TOTAL:			+	1	<del>                                     </del>			
	PLES COLLECTED:			†	<del></del>		<del>                                     </del>		

N/A

N/A

#### PROJECT QUANTITY SUMMARY REPORT DATE Tuesday 6-Oct-98 (Please write in categories no specified) **PREVIOUS** UNIT OF **CURRENT PROJECT** QUANTITY DESCRIPTION MEASURE THIS DATE **CUMULATIVE TOTAL** TOTAL 1,638 FEET 1638 TRENCH EXCAVATED TRENCH BACKFILLED FEET 544 644 904 904 HDPE PIPE REMOVED FEET EACH VAULTS REMOVED WELLS INSTALLED **EACH** 12 12 **FEET** HOPA PIPE INSTALLED **EACH** VAULTS INSTALLED ELECTRICAL CONDUIT FEET 390 390 74 74 WELL CUTTINGS DRUM TOTAL USE USED TODAY PREVIOUS USE REMAIN ON EST. REMOVAL **PROJECT MATERIAL LIST** (EACH) (DAYS) (DAYS) SITE DATE PPE N/A N/A VISQUEEN N/A N/A 74 **DRUMS** 74 N/A N/A 400 400 BARRICADE TAPE N/A N/A HDPE PIPE N/A N/A PRE-CAST VAULTS N/A N/A EMBEDMENT SAND N/A 3 3 N/A N/A N/A N/A N/A N/A N/A

(WILS)	Y		REPORT DATE			
				Tuesday	6-Oct-68	
SP. WG NO.	EQUIPMENT / MATERIAL RECEIVE		COMMENTS			
	Refer to daily cost summary sh					
					·	
					<del></del>	
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	13	14	21-Sep-98	
RENTAL CAR		1	23	24	8-Sep-98	
OFFICE TRAILER		1	23	24	8-Sep-98	
PORTABLE TOILET		1	23	24	8-Sep-98	
RADIOS		3	69	72	8-Sep-98	
ORGANIC VAPOR MO	NITOR	1	23 _	24	8-Sep-98	
BOXTRUCK		1	23	24	8-Sep-98	
MINI EXCAVATOR	1	19	20	14-Sep-98		
RI MINI EXCAVA		5	5	21-Sep-98	28-Sep-98	
RENTAL COMPRESSO	DR		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	Κ		1	11	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	11	12	23-Sep-98	
RENTAL MINI HOE		1		1	6-Oct-98	
COMPACTOR	· .	<u>.</u>				
RENTAL PUMP		1		1	6-Oct-98	
					·	<u> </u>
				<u> </u>		
	<u> </u>					··
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(HEE)	QUALITY CONTROL REPO		REPORT DATE
		Tuesday	6-Oct-98
	LOCATION AND DESCRIPTION OF DEFICIENCE	ES	
	(Materials, Equipment, Safety, and/or Workmanship)		
	Nothing to report		
	PROJECT STATUS REPORT		
CHANGE IN	CONTRACT: CHANGE ORDER EXTRA WORK OTHE	R	
BID ITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEWTOTAL
		<del></del>	
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	<u> </u>		
		<u> </u>	
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTIN	ENT INFORMATION)	
Attachm	ents: WRS Tailgate Safety Meeting WRS Quality Control Report		
1	ela OSul		
(FES)	Joe Anderson/Richard Scott		
		AN INTERNATIONAL, LLC	

			DAILY PRO	DUCTION	REPORT		t	REPORT DATE	
			<u> </u>				Thursday	8-Oct-98	
D Y ORE	DER NO.		TITLE AND LOCATION	Sol-Lynn S	ite-		REPORT NO.		
WRS JOB NO.	4412-98-4	0290	Но	uston, Texas			25		
CLIENT NAME			<u> </u>	PROJECT MANA	GER				
	itural Resource Cons	ervation Com	mission		Joe Anderso	n/Richard Sc	ott		
WEATHER-AM	Sunny			TEMPERATURE-	AM	60's			
WEATHER-PM	Sunny	_		TEMPERATURE-	PM	80's			
	WESTINGHOUSE / SUBCONTRA	ACTOR WORKFORCE			LOCATION AND DESCRIPTION OF WORK PERFORMED				
NUMBER	TRADE	HOURS	EMPLOYER	Onsite at	6:45 am.		· · · · · · · · · · · · · · · · · · ·		
1	Project Manager	8	WRS		rew released		k due to rais	n with the	
1	HS/QC Officer	8	WRS	U	of Milton Ma the weekly p		acting with	Radian	
1	Operator		WRS	TNRCC, a		noductio <u>ii ii</u>	icenny with	Naujali,	
1	Contract Labor		Greenfield	WRS crev	v pumped rai	<u>in water fron</u>	n trenches.	This is a	
<u> </u>	Contract Labor		Orcenica		<u>r. This is ra</u>				
<u> </u>					rson and Mil				
1	Operator	8	WRS		<u>be along the</u>			ın <u>d.</u>	
				Site secu	r <u>ed and all e</u>	mployees de	parted.		
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					DED.	DIEM TOTA		- ]	
					1	DIEM TOTA	1		
	<u> </u>		<u> </u>		in).	cluding weekend	is)		
					USED TODAY		3		
					PREVIOUS REPOR	т	58		
					START OF PROJEC	т	61		
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY MEETIN	IG HELD THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?	
SITE THIS DAT		24							
CUMULATIVE	TOTAL OF WORK		[]YES [	ONEX	•	[]YES	руј мо		
HOURS FROM PREVIOUS REPORT 875.5				`					
TOTAL WORK HOURS FROM		IF "YES", ATTACH COPY OF	MEETING RECORD		IF "YES", ATTACH (	COMPLETED OSHA	FORM		
START OF PROJECT 899.5		TO THIS RE	PORT		то	THIS REPORT			
	PROJECT SAMPLE LOG								
	DESCRIPTION	SOIL	WIPE CONC		OTHER		COMMENTS		
ES CO	LLECTED THIS DATE:								
PREVIOUS CU	JMULATIVE TOTAL:	_					. <u> </u>		
TOTAL SAMPL	LES COLLECTED:								

		PROJECT QUA			Υ		REPORT DATE	
(Please write in categories no specified)					Thursday 8-Oct-98			
	UNIT OF	QUANTITY		vīdus		JRRENT PROJEC		
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL		
TRENCH EXCAVATED	FEET	30	1638			1,668		
TRENCH BACKFILLED	FEET		644			644		
HDPE PIPE REMOVED	FEET	30	904			934		
VAULTS REMOVED	EACH	_						
WELLS INSTALLED	EACH		12		<u>-</u>	12		
HDPA PIPE INSTALLED	FEET							
VAULTS INSTALLED	EACH							
ELECTRICAL CONDUIT	FEET		390			390		
WELL CUTTINGS	DRUM		74			74		
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		<u> </u>						
1			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL	
PROJECT MATERIAL	LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE	
PPE		<del>-</del>	ļ <u></u>			N/A	N/A	
VISQUEEN						N/A	N/A	
DRUMS		<u> </u>		74	74	N/A	N/A	
BARRICADE TAPE			ļ 	400	400	N/A	N/A	
HDPE PIPE	<u> </u>					N/A	N/A	
PRE-CAST VAULTS			<u></u>			N/A	N/A	
EMBEDMENT SAND		- <u></u> -	ļ	3	3	N/A	N/A	
			ļ <u>-</u> _	<u> </u>		N/A	N/	
				ļ	<u> </u>	N/A	N/A	
						N/A	N/A	
			<u></u>	<u></u>		N/A	N/A	

WTS	PROJECT QU	ANTITY S	UMMAR	Y		REPORT DATE	
		(continued)	continued) Thursday				
SF WG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO B		COMMENTS				
	Refer to daily cost summary sheets attach	ned.					
				· · · · · · · · · · · · · · · · · · ·			
						<u> </u>	
	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL	
		(EACH)	(DAYS)	(DAYS)	DATE	DATE	
CREW TRUCK		2	25	27	21-Sep-98	·	
RENTAL CAR		<u></u>	16	16	8-Sep-98	28-Sep-98	
OFFICE TRAILER		1 1	25	26	8-Sep-98		
PORTABLE TOILET		1	24	25	8-Sep-98		
RADIOS		3	75	78	8-Sep-98		
ORGANIC VAPOR MO	NITOR	1	25	26	8-Sep-98		
BOXTRUCK		1	25	26	8-Sep-98		
MINI EXCAVATOR		1	21	22	14-Sep-98		
REMAL MINI EXCAVATOR			5	5	21-Sep-98	28-Sep-98	
RENTAL COMPRESS	OR		3	3	21-Sep-98	24-Sep-98	
RENTAL DUMP TRUC	κ		1	1	15-Sep-98	15-Sep-98	
RENTAL BACKHOE		1	13	14	23-Sep-98		
RENTAL MINI HOE		1	2	3	6-Oct-98		
COMPACTOR							
RENTAL PUMP		1	2	3	6-0ct-96		
		•					
	·	_		,			

(WTS)	QUALITY CONTROL REPORT	QUALITY CONTROL REPORT					
		Thursday	8-Oct-88				
	LOCATION AND DESCRIPTION OF DEFICIENCIES						
	(Materials, Equipment, Safety, and/or Workmanship)						
•	Nothing to report						
		,					
	·						
			<del></del>				
	PROJECT STATUS REPORT						
CHANGE IN CON	TRACT: CHANGE ORDER EXTRA WORK OTHER						
	·						
BEO ITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL				
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<del></del>	<u></u>						
			<del></del>				
REMARKS: (INCLL	IDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT I	(FORMATION)					
			٠				
Attachments:	WRS Tailgate Safety Meeting						
Augenniens.	WRS Quality Control Report						
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	Sug (1)						
	Joe Anderson/Richard Scott						
WES	TINGHOUSE REMEDIATION SERVICES, INC. RADIAN I	NTERNATIONAL, LLC					

			DAILY PRO	DUCTION	REPORT			REPORT DATE
	<u> </u>						Wednesday	7-Oct-98
DE Y OR	DER NO.		TITLE AND LOCATION	Sol-Lynn S	ite	R	EPORT NO.	:
WARS JOB NO.	4412-98-40	290	Ho	uston, Texas			24	
CLIENT NAME				PROJECT MANAG		•	•	
Texas Na	atural Resource Conse	rvation Comr	nission		Joe Anderso	n/Richard Sco	ott	
WEATHER-AM	Rain			TEMPERATURE-	W.	60's		
WEATHER-PM	Rain Rain			TEMPERATURE-F	PM	80's		
	WESTINGHOUSE / SUBCONTRA	CTOR WORKFORCE				TON AND DESCRIP WORK PERFORME		
NUMBER	TRADE	HOURS	EMPLOYER	Onsite at	6:45 am con	ducted safety	y and produ	ction
1	Project Manager	8	wrs	meeting.				
1	HS/QC Officer	8	WRS	B1		nud rotory) [ ill rig and the		
1	Operator	6.5	WRS			e day. The d		
1	Contract Labor	13	Greenfield		dnesday 10-			
		1,0	0.00	11		in water from	trenches. 1	his is a
					. This is ra			
. 1	Operator	9.5	WRS	11.		ed between \ d John Kovs		
-			,			and Friday		
				1		d unstable tr		
				Site secu	red and all e	mployees de	narted at	i :
				OKC GCGG.	pm.	iipioyooo uc	<del>partou at</del>	
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	<u> </u>		<u> </u>					
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					PER	DIEM TOTA	LS	
					(in	cluding weekend:	s)	
					USED TODAY		3	
					PREVIOUS REPOR	ī	55	
					START OF PROJEC	<b>л</b>	58	
TOTAL WORK	CHOURS ON JOB		WAS A JOB SAFETY MEETII	NG HELD THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?
SITE THIS DA	TE	45	·	•				
ŧ	TOTAL OF WORK PREVIOUS REPORT	830.5	[]YES	DX J NO	~	[ ] YES	DZ] NO	
TOTAL WORK HOURS FROM		IF "YES", ATTACH COPY OF	MEETING RECORD		IF "YES", ATTACH C	OMPLETED OSHA F	ORM	
START OF PROJECT 875.5		TO THIS RE				HIS REPORT		
			PROJECT SAMP	LELOG	-			
	DESCRIPTION	SOIL		CRET WATER	OTHER		COMMENTS	
Som LES CO	DLLECTED THIS DATE:							
PREVIOUS C	UMULATIVE TOTAL:							
TOTAL SAMP	LES COLLECTED:							,

IVAS	Р	ROJECT QU	JANTITY S	SUMMAR	Y		REPORT DATE
		(Please write in categorie	es no specified)			Wednesday	7-Oct-98
	UNIT OF	QUANTITY	PRE	VIOUS	CI	JRRENT PROJEC	ा 💮
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		1638			1,638	
TRENCH BACKFILLED	FEET		644			644	
HDPE PIPE REMOVED	FEET		904			904	
VAULTS REMOVED	EACH						
WELLS INSTALLED	EACH		12			12	
HDPA PIPE INSTALLED	FEET						
VAULTS INSTALLED	EACH						
ELECTRICAL CONDUIT	FEET		390		_	390	
WELL CUTTINGS	DRUM		74		,	74	
				,			
	·						
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				_	· · · · · · · · · · · · · · · · · · ·
				· · · · · · ·			
•							
					_ <del></del>		
							-
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATI	ERIAL LIST	•	(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
VISQUEEN		-	-			N/A	N/A
DRUMS	<del></del>			74	74	N/A	N/A
BARRICADE TAPE				- 400	400	N/A	N/A
HDPE PIPE	•					N/A	N/A
PRE-CAST VAULTS	<u> </u>					N/A	N/A
EMBEDMENT SAND	<del></del> -			- 3	3	N/A	N/A
					-	N/A	N/A
						N/A	N/A
						N/A	N/A
				,		N/A	N/A

WRS	PROJECT QUA	NTITY S	UMMAR	Υ		REPORT DATE
		(continued)		· .	Wednesday	7-Oct- <b>6</b> 8
SP WG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE I	NCORPORATED	SIN-20B	_ <del>_</del>	COMMENTS	
	Refer to daily cost summary sheets attache	d.				•
	1				· · · · · · · · · · · · · · · · · · ·	
						<del></del>
		<u> </u>			· · · · · · · · · · · · · · · · · · ·	
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	14	15	21-Sep-98	
RENTAL CAR		1	24	25	8-Sep-98	
OFFICE TRAILER		1	24	25	8-Sep-98	
PORTABLE TOILET		1	24	25	8-Sep-98	
RADIOS		3	72	75	8-Sep-98	
ORGANIC VAPOR MOI	NITOR	11	24	25	8-Sep-98	
BOXTRUCK		1	24	25	8-Sep-98	
MINI EXCAVATOR	·	1	20	21	14-Sep-98	
RE L MINI EXCAVA	TOR		5	5	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	DR		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	<u> </u>		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	12	13	23-Sep-98	
RENTAL MINI HOE		1	1	2	6-Oct-98	
COMPACTOR		`				
RENTAL PUMP		1	1	2	6-Oct-98	
						,
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		<u> </u>	`			

(B)	QUA	LITY CONTROL	REPORT		REPORT DATE
<u> </u>	<u> </u>	<u> </u>		Wednesday	7-Oct-88
	LOCATIO	ON AND DESCRIPTION OF	DEFICIENCIES		
<u> </u>	(Ma	terials, Equipment, Safety, and/or V			
		Nothing to rep	ort		
	PRO	JECT STATUS REPO	PRT		- M-T-NVA
CHANGE IN CONTRA	CT: CHANGE ORDER	EXTRA WORK	OTHER .		<del></del>
BIDITTEM	DESCRIPTION OF CH	IANGE		QUANTITY CHANGE	NEW TOTAL
		<u></u>			
		<u> </u>			
<del></del>		<u> </u>			
	<del></del>			·	
			- <u></u>		
REMARKS: (INCLUDE DI	RECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOT	ICES, SAFETY INSPECTIONS, AN	OTHER PERTINENT IN	FORMATION)	
Attachments:	WRS Tailgate Safety Meeting WRS Quality Control Report		•		
		<del></del>	·		
	Joe Anderson/Richard Scott				
WESTING	HOUSE REMEDIATION SERVICES, INC.		RADIAN II	ITERNATIONAL, LLC	

WRS			DAILY PROI	DUCTION	REPORT			REPORT DATE
			77 5 11/0 1 00 1 70 1	Sol-Lynn S	liter		Friday	9-Oct-98
	DER NO.	2000	TITLE AND LOCATION	·	olice		REPORT NO.	
WRS JOB NO. CLIENT NAME	4412-98-4	0290	Hou	ston, Texas	GER		26	
	tural Resource Conse	ervation Com	mission	PROJECT MARK	Joe Andersor	n/Richard So	ott	
WEATHER-AM	Sunny			TEMPERATURE-	-AM	60's	-	· ·
WEATHER-PM	Sunny			TEMPERATURE-	-PM	80's		
	WESTINGHOUSE / SUBCONTRA	CTOR WORKFORCE				ON AND DESCRIF VORK PERFORM		
NUMBER	TRADE	HOURS	EMPLOYER	NO WOR	K TODAY This	is a RAIN	DAY.	
1	Project Manager	8	WRS		•			
1	HS/QC Officer	,	WRS					
1	Operator		WRS			•		
	Contract Labor		Greenfield					
<u> </u>			Orodinioid					, -
1	Operator	5	WRS					
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		-						* .
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					PER I	DIEM TOTA	LS	
					(inc	iuding weekend	is)	
					USED TODAY			
					PREVIOUS REPORT		61	
					START OF PROJECT		61	
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY MEETING	HELD THIS DATE?			LOST TIME ACCID	ENTS THIS DATE?
SITE THIS DAT		13						
ŀ	TOTAL OF WORK PREVIOUS REPORT	899.5	[]YES [X	ј ио	`	[ ] YES	[х] но	
TOTAL WORK			IF "YES", ATTACH COPY OF M	EETING RECORD	ı	F "YES", ATTACH (	COMPLETED OSHA	FORM
START OF PRO	OJECT .	912.5	TO THIS REP	ORT			THIS REPORT	
			PROJECT SAMPL	E LOG	۰.			
	DESCRIPTION	SOIL	WIPE CONCI		OTHER	_ <del>-</del> -	COMMENTS	
S COL	LECTED THIS DATE:							
PREVIOUS CU	MULATIVE TOTAL:							
TOTAL SAMPL	ES COLLECTED:							

		PROJECT QUA			Υ	. <del></del>	REPORT DATE
		(Please write in categories n	o specified)			Friday	9-Oct-98
	UNIT OF	QUANTITY	PRE	vīdus		RRENT PROJEC	т
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		1668			1,668	
TRENCH BACKFILLED	FEET		644			644	
HDPE PIPE REMOVED	FEET		934			934	
VAULTS REMOVED	EACH						
WELLS INSTALLED	EACH		12			12	
HDPA PIPE INSTALLED	FEET	·			<u>·</u>		
VAULTS INSTALLED	EACH						
ELECTRICAL CONDUIT	FEET_		390			390	
WELL CUTTINGS	DRUM		74			74	
					·		
•							
					<u> </u>		
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERIAL	LIST	<u></u>	(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE	· ·				-	N/A	N/A
VISQUEEN		· · · · · · · · · · · · · · · · · · ·				N/A	N/A
DRUMS				74	74	N/A	N/A
BARRICADE TAPE		·		400	400	N/A	N/A
HDPE PIPE		·				N/A	N/A
PRE-CAST VAULTS						N/A	N/A
EMBEDMENT SAND		<u> </u>		3	3	N/A	N/A
						N/A	N/A
						N/A	N/A
						N/A	N/A
						N/A	N/A

(WRS)	PROJECT QU	PROJECT QUANTITY SUMMARY					
<b>Y</b>		(continued)			Friday	9-Oct-98	
SF MG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO B		HIGOB		COMMENTS		
	Refer to daily cost summary sheets attach	iea.			<u> </u>		
	<u> </u>				<u> </u>		
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<u> </u>							
			<u> </u>				
	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL	
<u> </u>		(EACH)	(DAYS)	(DAYS)	DATE	DATE	
CREWTRUCK		<del> </del>	27	27	21-Sep-98		
RENTAL CAR	2000		. 16	16	8-Sep-98	28-Sep-98	
OFFICE TRAILER		1	26	27	8-Sep-98		
PORTABLE TOILET		1 1	25	26	8-Sep-98		
RADIOS	· · · · · · · · · · · · · · · · · · ·		78	78	8-Sep-98		
ORGANIC VAPOR MO	ONITOR		26	26	8-Sep-98		
BOXTRUCK			26	26	8-Sep-96		
MINI EXCAVATOR			22	22	14-Sep-98		
R L MINI EXCAV	ATOR		5	5	21-Sep-98	28-Sep-98	
RENTAL COMPRESS	OR		3	3	21-Sep-98	24-Sep-98	
RENTAL DUMP TRUC	CK		1	_ 1	15-Sep-98	15-Sep-98	
RENTAL BACKHOE		1	14	15	23-Sep-98		
RENTAL MINI HOE		11	3	4	6-Oct-98		
COMPACTOR							
RENTAL PUMP			2	2	6-Oct-98	8-Oct-98	
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WTS		QUA	LITY CONTROL	REPORT		REPORT DATE
	<del></del>				Friday	9-Oct-88
		LOCATI	ON AND DESCRIPTION OF	DEFICIENCIES		
			Asterials, Equipment, Safety, and/or W	korkmenship)		
			Nothing to rep	ort		
			•			
					•	
					<del></del> -	
		PRO	JECT STATUS REPO	RT		
CHANGE II	N CONTRACT:	CHANGE ORDER	☐ EXTRA WORK	OTHER		· · · · · · · · · · · · · · · · · · ·
BIDITEM		DESCRIPTION OF C	HANGE		QUANTITY CHANGE	NEW TOTAL
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REMARKS:	(NOLUDE DIRECT)	ONS FROM CLIENT, VISITORS, COMPLIANCE NO	OTICES, SAFETY INSPECTIONS, AND	OTHER PERTINENT IN	PORMATION)	
Attachm	nents: W	RS Tailgate Safety Meeting		,		
		RS Quality Control Report				•
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	M/X	Jall	<del></del>			
	Joe	Anderson/Richard Scott				
	WESTINGHOU	SE REMEDIATION SERVICES, INC.		RADIAN II	NTERNATIONAL, LLC	

(IVRS)			DAILY P	RODU	CTION F	REPORT			REPORT DATE
¥			·			<del></del>		Monday	12-Oct-88
DELLOR	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	te	ı	REPORT NO.	
WRS JOB NO.	4412-98-402	90			n, Texas			27	
CLUENT NAME					PROJECT MANAG		<b></b>	••	
Texas Na	atural Resource Conser	vation Com	mission			Joe Anderso	n/Richard So	cott	
WEATHER AN	sunny				TEMPERATURE-A	<u> </u>	60's		
WEATHER PI	Sunny		<u> </u>		TEMPERATURE-P		80's		
	WESTINGHOUSE / SUBCONTRACT	FOR WORKFORCE	· .				TION AND DESCRIP WORK PERFORM		<i></i>
HUMBER	TRACE	HOURS	EMPLO	MER				nducted saf	
1	Project Manager	8	WRS	٠, ,				v drilled MW	
1	HS/QC Officer	8	WRS		casing on		trol) also th	ey drilled th	<u>e inner</u>
1	Operator	11.5	WRS					s and replac	
1	Contract Labor	11.5	Greenfield					(SE-6, SZEI	
		1			J- · - —	nd placed 1	<u>vo teet of du</u>	<u>iel containm</u>	<u>ent</u>
		145	14/00		piping in.	were delive	red to the si	te todav	
	Operator	11.5	WRS				re delivered		
		<del> </del>						I WRS empl	oyees_
					<u>left.</u>			·	
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		<del>-</del>	<del>                                     </del>		. 1	PER	DIEM TOTA	ALS	•
	<del> </del>	†					cluding weekend		
		<del></del> -	<del> </del>				Stading Hooks to		
├─		<del> </del>	<u> </u>			USED TODAY		3	
<b> </b>	<u>                                     </u>	-		<u></u>		PREVIOUS REPOR	π	61	
						START OF PROJEC	<b>ा</b>	64	
TOTAL WORK	(HOURS ON JOB		WAS A JOB SAFETY	MEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?
SITE THES DA		50.5	4						
ł .	TOTAL OF WORK  A PREVIOUS REPORT	912.5	[]YES	[X] NO			[ ]YES	рд ио	
<del></del>	(HOURS FROM	912.5	ENEW ATTACA	DV 0E1#	ic become	•	E-VEC* 17***	AND EACH VOIS	EOD4
START OF PR		963	IF "YES", ATTACH CO	PY OF MEETIN HIS REPORT				XOMPLETED OSHA I THIS REPORT	· √rom
			PROJECT SA		OG	<u>.</u>			
	DESCRIPTION	SOIL		CONCRETE		OTHER		COMMENTS	
\$ S ∞	LLECTED THIS DATE:								
PREVIOUS CL	LIMULATIVE TOTAL:								- <u></u>
TOTAL SAMP	LES COLLECTED:				L		<u> </u>		

WES	PROJECT QUA	PROJECT QUANTITY SUMMARY						
		(continued)			Monday	12-Oct-00		
SPEC / DWG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		IN JOB		COMMENTS			
	Refer to daily cost summary sheets attache	d.						
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					<del>,</del>			
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL		
<u> </u>		(EACH)	(DAYS)	(DAYS)	DATE	DATE		
CREW TRUCK		2	27	29	21-Sep-98			
RENTAL CAR			16	16	8-Sep-98	28-Sep-98		
OFFICE TRAILER		1	28	29	8-Sep-98			
PORTABLE TOILET		1	28	29	8-Sep-98			
RADIOS		3	78 .	81	8-Sep-98			
ORGANIC VAPOR MO	NITOR	1	26	27	8-Sep-98			
BOXTRUCK		1	26	27	8-Sep-98			
MINI EXCAVATOR		1	22	23	14-Sep-98			
RENTAL MINI EXCAVA	TOR	1	5	6	21-Sep-98	28-Sep		
RENTAL COMPRESSO	DR .		3	3	21-Sep-98	24-Sep-98		
RENTAL DUMP TRUCK	K		1	1	15-Sep-98	15-Sep-98		
RENTAL BACKHOE		1	16	17	23-Sep-98			
RENTAL MINI HOE		1	5	6	6-Oct-98	-		
COMPACTOR								
RENTAL PUMP			2	2	6-Oct-98	8-Oct-98		
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		QUA	LITY CONTROL	REPORT		REPORT DATE
		*			Monday	12-Oct-88
6		LOCATIO	ON AND DESCRIPTION OF	DEFICIENCIES		
	1		steriols, Equipment, Sefety, and/or Wo			
			Nothing to repo			
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		PRO	JECT STATUS REPO	RT		
CHANGE II	N CONTRACT:	CHANGE ORDER	☐ EXTRA WORK	OTHER		
ero ITEM		DESCRIPTION OF C	HANGE		QUANTITY CHANGE	NEW TOTAL
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REMARKS:	(INCLUDE DIREC	TIONS FROM CLIENT, VISITORS, COMPLIANCE NO	TICES, SAFETY INSPECTIONS, AND	OTHER PERTINENT INF	FORMATION)	
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l			·			
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Attachm		NRS Tailgate Safety Meeting		•		
	1	WRS Quality Control Report				
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	9	all				
WIES	J	oe Anderson/Richard Scott				
	WESTINGHO	DUSE REMEDIATION SERVICES, INC.		RADIAN II	NTERNATIONAL, LLC	

WTS			DAILY PR	RODU	CTION F	REPORT			REPORT DATE
<u> </u>						····		Tuesday	13-Oct-88
DEL PROPERTY.	DER NO.	ı	TITLE AND LOCATION	;	Sol-Lynn Si	te	F	REPORT NO.	j
ARS JOB NO.	4412-98-40	)290		Houston	ı, Texas			28	
SUENT NAME	•	-	,	ļ	PROJECT MANAG	ER			
Texas Na	atural Resource Conse	ervation Com	mission		Joe Anderson/Richard Scott				
WEATHER-AM	Sunny			TEMPERATURE-AM 60'S					
WEATHER PM	Sunny				TEMPERATURE-P	M	80's		
	WESTINGHOUSE / SUBCONTRA	CTOR WORKFORCE			LOCATION AND DESCRIPTION OF WORK PERFORMED				
YUMBER	TRADE	HOURS	EMPLOY	ER	WRS arriv	ed onsite @	6:45 am cor	nducted saf	ety &
1	Project Manager	8	WRS		production	n meeting.	Drilling crew	drilled the	inner
	HS/QC Officer	8	WRS		casing for				
							cleaning out		_
	Operator_	11.5	WRS				then sat two		_
1	Contract Labor	11.5	Greenfield				re delivered		priig.
							e day and al		ovee
1	Operator	11.5	WRS		left.				
	Оролион	<del></del>	1110						İ
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						PER	DIEM TOTA	ALS	1
ł I				-		(în	cluding weekend	s)	
						USED TODAY		3	
-						PREVIOUS REPOR	<del>,,</del>	64	
	<del> </del>					START OF PROJEC		67	
70741 141071	LIGHTON ON INC.		1440 A 100 CATTOVIA		D THE COLUMN				
SITE THIS DAT	HOURS ON JOB	50.5	WAS A JOB SAFETY M	EETING REL	DIRISUATE		WERE THERE ANY	LOST TIME ACCIDE	ENIS IMIS DATE?
	TOTAL OF WORK		[]YES	DX ] NO			[ ]YES	DZI NO	
	I PREVIOUS REPORT	963	""	2.2		<b>~</b>		<b>74</b>	
TOTAL WORK	HOURS FROM		IF "YES", ATTACH COP	Y OF MEETIN	IG RECORD		IF "YES", ATTACH C	OMPLETED OSHA	FORM
START OF PR	OJECT	1013.5	тотн	IS REPORT		<u></u>	то	THIS REPORT	
			PROJECT SA	MPLF I	.OG				
	DESCRIPTION	SOIL		ONCRETE	WATER	OTHER		COMMENTS	
SA <b>TE</b> S CC	LLECTED THIS DATE:		1		. <del></del>				_ 7
	MULATIVE TOTAL:								
-	LES COLLECTED:							-	
			1			I.	<u> </u>		

WRS	PROJECT Q		<u> </u>	Y		REPORT DATE
		(continued)			Tuesday	13-Oct-66
SPEC / DWG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO	D BE INCORPORATED	BOLIZI		COMMENTS	
	Refer to daily cost summary sheets atta	ched.				
					<u> </u>	
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK		2	29	31	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	29	30	8-Sep-98	
PORTABLE TOILET		1	29	30	8-Sep-98	
RADIOS		3	81	84	8-Sep-98	
ORGANIC VAPOR MO	NITOR .	1	27	28	8-Sep-98	
BOXTRUCK		1	· 27	28	8-Sep-98	
MINI EXCAVATOR		1	23	24	14-Sep-98	
RENTAL MINI EXCAVA	ATOR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	DR		3	3	21-Sep-98	24-Sep-6
RENTAL DUMP TRUC	κ		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	17	18	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR						
RENTAL PUMP			2	. 2	6-Oct-98	8-Oct-98
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WRS		QUA	LITY CONTRO	L REPORT		REPORT DATE
<b>S</b>					Tuesday	13-Oct-88
	<u> </u>	LOCATI	ION AND DESCRIPTION OF	DEFICIENCIES		
			Autorials, Equipment, Safety, and/or l	Morkmenship)	·	
	-		Nothing to rep	ort		
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		- DDC	TOT STATUS DED	\n_		
		PRU	JECT STATUS REPO	JK i		
CHANGE IN	I CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER _		
<u>-</u>	<del></del>		· · · · · · · · · · · · · · · · · · ·			
вюпем	<del> </del>	DESCRIPTION OF C	HANGE		QUANTITY CHANGE	NEW TOTAL
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			·			
REMARKS:	(INCLUDE DIRECTIONS F	ROM CLIENT, VISITORS, COMPLIANCE NO	OTICES, SAFETY INSPECTIONS, AN	ID OTHER PERTINENT INF	FORMATION)	
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Attachm		ailgate Safety Meeting		-		
	AALO	Quality Control Report				
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	10	No		-		
		all.				
	Joe An	derson/Richard Scott				-
		REMEDIATION SERVICES, INC.		RADIAN IN	TERNATIONAL, LLC	

WTS	<u> </u>		DAILY P	RODU	CTION	REPORT			REPORT DATE
						<del></del>		Wednesday	14-Oct-88
en	ROER NO.		TITLE AND LOCATION		Sol-Lynn S	ite		REPORT NO.	
ARS JOB NO	4412-98-402	290		Houston	n, Texas_			29	
LIENT NAM					PROJECT MANAG	ER			
exas N	latural Resource Conser	vation Com	mission			Joe Anderso	n/Richard Se	cott	
VEATHER-A	M Sunny				TEMPERATURE-	····	60's	<del>- "</del>	
VEATHERP	M Sunny				TEMPERATURE-	·M	80's		
	WESTINGHOUSE / SUBCONTRAC	TOR WORKFORCE					ION AND DESCRI WORK PERFORM		
<b>JAMBER</b>	TRADE	Hours	EMPLO	YER	WRS arriv	ed onsite @	6:45 am co	nducted saf	ety &
	1 Project Manager	8	WRS	ļ		n meeting.			{
	1 HS/QC Officer	8	WRS					ding sand a ent piping. ]	
	1 Operator	11	WRS		bone and	the 1" leak o		pe (231') was	
	1 Contract Labor	22	Greenfield		for Group			,	
	<u> </u>	<del> </del>						eak detectio	
	<del>                                     </del>							sure tested.	•
	1 Operator		WRS					A. Approx	<u>imately</u>
				_		ench was ba			
<del></del>	<del></del>	+	<del></del>			losed for th	<u>e day and a</u>	<u>II WRS empl</u>	oyees
		•			<u>left.</u>				<u> </u>
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		<del> </del>	<u> </u>	-		<u>.                                    </u>			
						PER	DIEM TOTA	ALS	l
					ĺ	( //	cluding weekend	_(e)	
		<del></del>	<del> </del>				oldering works		Ì
	<del> </del>				}	USED TODAY	·	2	
		<u> </u>				PREVIOUS REPOR	<u>r</u>	67	
						START OF PROJEC	π	69	
TOTAL WOR	IK HOURS ON JOB		WAS A JOB SAFETY	MEETING HEL	D THIS DATE?	•	WERE THERE AN	LOST TIME ACCIDE	ENTS THIS DATE?
SITE THIS D	ATE	49	]						1
CUMPLEATIVE	E TOTAL OF WORK		[] YES	DX ] NO			[]YES	D2] NO	· .
HOURS FRO	M PREVIOUS REPORT	1013.5	į			~			
TOTAL WOR	K HOURS FROM		IF "YES", ATTACH CO	PY OF MEETS	NG RECORD		IF "YES", ATTACH (	COMPLETED OSHA!	FORM
START OF P	ROJECT	1062.5	<u> τοτ</u>	HIS REPORT			то	THIS REPORT	
			PROJECT SA	AMPLE L	_OG				
	DESCRIPTION	SOIL	WIPE	CONCRETE		OTHER		COMMENTS	
s. o	OLLECTED THIS DATE:								
PREVIOUS C	ZAMULATIVE TOTAL:								
TOTAL SAM	PLES COLLECTED:								

# (B)

### PROJECT QUANTITY SUMMARY

		(Please write in categories	no specified)			Wednesday	14-Oct-88
	UNITOF	QUANTITY		vious		JRRENT PROJE	
DESCRIPTION	MEASURE	THIS DATE		TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		1668			1,668	
TRENCH BACKFILLED	FEET	150	644			794	
HOPE PIPE REMOVED	FEET		964			964	
VAULTS REMOVED	EACH		17			17	
<b>M</b> ELLS INSTALLED	EACH		13			13	
HDPA PIPE INSTALLED	FEET	125	200			325	
VAULTS INSTALLED	EACH		5			5	
ELECTRICAL CONDUIT	FEET	<u>-</u>	390				
WELL CUTTINGS	DRUM	····	86	· -	· 		
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	<u> </u>						
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<u> </u>		<del></del>	<del> </del>				
		<u> </u>	+	<del></del>		<del></del>	<del></del>
			ſ	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATER	KIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE		<del></del>	<del> </del>			N/A	N/A
MSQUEEN		·				N/A	N/A
DRUMS TABE	<del>_</del>	· · · · · · · · · · · · · · · · · · ·	<del>                                     </del>	86	86	N/A	N/A
BARRICADE TAPE			445	400	400	N/A	N/A
2" HDPE PIPE			112	120	232	N/A	N/A
PRE-CAST VAULTS		<u></u>		5	5	N/A	N/A
EMBEDMENT SAND		<del></del>	2	5	7	N/A N/A	N/A
1" HDPE PIPE 3" HDPE PIPE		<del></del>	231	-	231	N/A	N/A
V IID CTIFE	•	· · · · · · · · · · · · · · · · · · ·	<del></del>	<del>                                     </del>	<del></del>	N/A N/A	N/A N/A
<del></del>		···	<del> </del>	<del>                                     </del>		N/A	N/A

(WITS)	PROJECT QUA	NTITY S	UMMAR	Y		REPORT DATE
		(continued)		_	Wednesday	14-Oct-88
SP MG NO	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE I	NCORPORATED	(NL)OB		COMMENTS	
	Refer to daily cost summary sheets attache	d.				
		•		_		
·				_		
Р	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL.
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		11	31	32	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	30	31	8-Sep-98	
PORTABLE TOILET		11	30	31	8-Sep-98	
RADIOS		3	84	87	8-Sep-98	
ORGANIC VAPOR MON	NITOR	11	28	29	8-Sep-98	
BOXTRUCK		1	28	29	8-Sep-98	
MINI EXCAVATOR		1	24	25	14-Sep-98	
REAL MINI EXCAVA	ror		6	6	21-Sep-98	28-Sep-98
REWAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	ζ		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	18	19	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	2	3	12-Oct-98	
RENTAL PUMP			2	2	6-Oct-98	8-Oct-98
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TT7	Dadiation	Camicae Inc
	:::::::euranon	DEI VICES, 11tc.

WTS	QUALITY CONTROL REPORT		REPORT DATE
		Wednesday	14-0ct-88
	LOCATION AND DESCRIPTION OF DEPICIENCIES	<del>-</del>	
	(Materials, Equipment, Safety, and/or Workmanship)		
	Pressure testing was completed on Group A Duel Containment and La		
	attached Hydrostatic Test Log for details. The test was successful and	approved by WRS an	d the
	Radian Field Representative.		
	PROJECT STATUS REPORT		
CHANGE II	N CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
	OTREK	<del></del>	<del></del>
BIDITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
	DEDOM NOT OF THE	WOATHIT GIPTIGE	HEIT TOTAL
			<del></del>
		<u> </u>	
			<del></del>
		<u> </u>	
PENARKS:	(HOLUGE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT IN	IFORMATION)	<u> </u>
			,
		,	
			<del></del> .
Attachm			
	WRS Quality Control Report		
	State	<u> </u>	
(PIS)	Joe Anderson/Richard Scott		
	WESTINGHOUSE REMEDIATION SERVICES, INC. RADIAN I	NTERNATIONAL, LLC	

#### WESTINGHOUSE REMEDIATION SERVICES, INC.

CONTRACT I	TITLE AND LOCATION		Date:	
JOB NO. 4412- <del>9</del> 8-4029	Sol Lynn/		Oct. 14	4, 1998
CLIENT NAME		PROJECT MANAG	ER	
Texas Natural Resource Conse	ervation Commission	Joe Anders	on/Richard Scot	<u>t</u>
WEATHER CONDITIONS SUNNY		TEMPERATURE	80's	
	PIPE INFORMATI	ON		
Pipe ⊠ HDPE	☐ PVC	STEEL	□от≀	IER
Diameter 🔀 2"	3"	<b>□</b> 4"	e	OTHER
Tact Proceura	5 ///201	Dine Lengt	th (tastad) 4	20' & 500' <i>A NE</i>
Test Pressure	5 (PSI)	Pipe Lengt	th (tested) 1	20' & 500' (LNF)
Time (10 minutes max.)	Pressure (gauge	<u>reading)</u>		Comments
Time (10 minutes max.)  Containment				Comments
Containment	5 lest	reading)  OK (psi)		Comments
Containment	5 lest	ox (psi)		Comments
Containment	5 lest	OK (psi)		<u>Comments</u>
Containment	5 lest	OK (psi) (psi)		Comments
Containment	5 lest	(psi) (psi) (psi) (psi) (psi) (psi)		Comments
Containment	5 lest	(psi) (psi) (psi) (psi)		Comments
Containment  1" Z:08 pm  Test Duration:	Mikustes Pr	(psi) (psi) (psi) (psi) (psi) (psi)	encles:	
Containment  1" Z:08 pm  Test Duration:	Mikustes Pr	(psi) (psi) (psi) (psi) (psi) (psi)		
Containment  1" Z:08 pm  Test Duration:	Mikustes Pr	(psi) (psi) (psi) (psi) (psi) (psi)		
Containment  1" Z:08 pm	Minister Pr	(psi) (psi) (psi) (psi) (psi) (psi) (psi)	encles:	

Signature: WRS QA/QC

Signature: Radian Representative

(WES)			DAILY P	RODU	CTION I	REPORT			REPORT DATE		
78	ER NO.		TITLE AND LOCATION		Sol-Lynn Si	te-		Thursday REPORT NO.	15-Oct-88		
		00	me Au Escanar		·		•				
WRS JOB NO.	4412-98-402	90			n, Texas			30			
CLENT NAME Texas Na	tural Resource Conserv	zation Com	mission	ļ	Joe Anderson/Richard Scott						
WEATHERAM	0				TEMPERATURE-A	201-					
	0				TEMPERATURE P		80's		,		
WEATHER PM	WESTINGHOUSE / SUBCONTRACT	OR WORKFORCE		-	LOCATION AND DESCRIPTION						
i				ļ	OF WORK PERFORMED						
NUMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite @	6:45 am co	nducted safe	ety &		
1	Project Manager	8	WRS			n meeting.					
	HS/QC Officer	8	WRS		WRS crew continued placing bedding sand and placed 200 feet of duel containment piping.						
1	Operator	11	WRS				on testing in		uccessful)		
	Contract Labor	22	Greenfield		backfill or	eration con	tinued in Gr	oup A and i	nto		
<u>-</u> -	CONTRACT CADO	- 22	Greenineid		·—-	<b>Approximat</b>			į		
	· · · · · · · · · · · · · · · · · · ·	- <del> </del> -					ckfilled toda				
1	Operator		WRS				covers for the		4		
		•		ł		<u>eq anq qisp</u>	osed of a ro	HOT OF CORE	rete and		
					debris. Radian did not have the keys to open the southwest						
		<del></del>			gate of the mound area today.						
			<u>.                                    </u>								
<b></b>		<del> </del>			Site was closed for the day and all WRS emplo						
	· · · · · · · · · · · · · · · · · · ·	<del> </del>	<u> </u>		<u>left.</u>				1		
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<del>                                     </del>			<del> </del>		,	555	DIEM TOTA		-		
<del> </del> -	<u> </u>		<del> </del> -				DIEM TOTA				
	·					(in	cluding weekend	s)	ł		
<u></u>			<u> </u>			USED TODAY		2	ł		
						PREVIOUS REPOR	π	67	ļ		
						START OF PROJEC	ा	69	ĺ		
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY	MEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?		
SITE THIS DAT	E	49	]								
1	TOTAL OF WORK	1000 F	[]YES	DC) NO			[ ]YES	рд но	j		
<del> </del>	PREVIOUS REPORT	1062.5	<b></b>			•					
START OF PRO		1111.5	IF YES", ATTACH CO	PY OF MEETIN HIS REPORT	YG RECORD			XOMPLETED OSHA! THIS REPORT	O-9W		
		1	1 101	, u.z. ORI	<del></del>	·		no rear with			
	P.50051		PROJECT SA				<del></del>		<u>-</u> -		
	DESCRIPTION	SOIL	WPE	CONCRETE	WATER	OTHER		COMMENTS			
2 3 COL	LECTED THIS DATE:	+	-				<u> </u>				
PREVIOUS CU	MULATIVE TOTAL:	-	<del> </del>			<u> </u>					
TOTAL SAMPL	ES COLLECTED:				<u></u>	<u></u>	L				

WRS	QUALIT	CONTROL	REPORT		REPORT DATE
<u> </u>				Thursday	15-Oct-68
	LOCATION AN	D DESCRIPTION OF D	EFIGIENCIES		
		Equipment, Sefety, and/or Wor		T 1072 - 5 1	
	Compaction testing was conducted in the t will supply WRS with a complete map and for this project is: 87 PCF/28% moisture For field notes test results are approximate	testing results a ly:	fter all testii	ng is completed. The $j$	
	Test 1 98.7% First Lift Test 2 10 Test 4 96.3% First Lift Test 5 9. Pressure Test on Group B including the duform).	1.7% Second I	ift Test 6	92.6% Second Lift	iched test
	PROJECT	STATUS REPOR	rT		
CHANGE II	N CONTRACT: CHANGE ORDER	EXTRA WORK	OTHER		
				<del></del>	
METICE	DESCRIPTION OF CHANGE	· · · · · · · · · · · · · · · · · · ·	· ·	QUANTITY CHANGE	NEW TOTAL
<u> </u>		<u></u>			
<u> </u>	<u> </u>				
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, S	AFETY INSPECTIONS, AND C	OTHER PERTINENT IN	FORMATION)	
<u></u>					
Attachm	nents: WRS Tailgate Safety Meeting WRS Quality Control Report		`		
B	Smith				
	Joe Anderson/Richard Scott				
	WESTINGHOUSE REMEDIATION SERVICES, INC.		RADIAN I	NTERNATIONAL, LLC	

#### WRS INFRASTRUCTURE ENVIRONMENT, INC.

	Hydrostatic	Test Log	
CONTRACTI	TITLE AND LOCATION		Date:
уов но. 4412 <del>-98-4</del> 029	Soi Lynn/industria	al Transformer	Oct. 15, 1998
CLIENT NAME		PROJECT MANAGER	1
Texas Natural Resource Conserva	tion Commission	Joe Anderson	/Richard Scott
WEATHER CONDITIONS SURINY		TEMPERATURE	80's
	PIPE INFORMATION		<u> </u>
Pipe Muses			
Type HDPE	☐ PVC	STEEL	OTHER
Diameter 🔀 2"	□ 3"	<b>□</b> 4"	☐ 6" ☐ OTHER
Design Pressure: Minimum N/A  Test Location (ref. drawing)	····	m N/A nt(2") and Leak D	etection System (1") on Group E
Test Pressure Time (10 minutes max.)	5 (PSI) Pressure (gauge)	Pipe Length	(tested) 175' & 500' (LNF)
Duel Containment 2" – 175'	1742 - 1717	5 (psi)	
Duel Containment 2" - 175' Leak Detection 1" - 500'	·	(psi)	
Lear Detection 1 = 300	1 171 -119/	(psi)	
<del></del>	<del></del>	<del></del>	
	<del></del>	(psi)	
		(psi)	
<del></del>		(psi)	
		(psi)	
Test Duration: 10 minutes se	et & 10 minutes test	Pressure De	ficiencies: None
Corrective Actions: None	Required		
Comments (list deficiencies, repairs,	etc.) <u>18sts A</u>	afraved	)

Signature: WRS QA/QC

Signature: Radian Representative

WIS			DAILY P	RODU	CTION I	REPORT			REPORT DATE
			<u>,                                    </u>	_		***		Friday	19-Oct-88
ÆLN. OR	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	te-	ı	REPORT NO.	]
VRS JOB NO.	4412-98-402	90	l <u></u>	Houston	n, Texas			31	
JUENT NAME			<del>-</del>		PROJECT MANAG				7
Texas Na	atural Resource Consen	vation Com	mission			Joe Anderso	n/Richard So	xott	
VEATHER-AN	<del>,</del>				TEMPERATURE-A	М	60's		
MEATHER PM	Cloudy/Rain				TEMPERATURE P		80's		
	WESTINGHOUSE / SUBCONTRACT	OR WORKFORCE	: 			•	TION AND DESCRIF WORK PERFORM		
#UMBER	TRADE	HOURS	EMPLO	MER	WRS arriv	ed onsite @	6:45 am co	nducted safe	ety &
1	Project Manager	8	WRS			n meeting.	4b d)	4-!	
1	HS/QC Officer	8	WRS				ace the duel be in Group		
1	Operator	11.5	WRS		Group C (	mound area	). The electr	icians place	d conduit
1	Contract Labor	20	Greenfield				total of 156'	of trench w	as_
					backfilled	today.	•		
1	Operator		WRS			losed for th	e day and al	II WRS empl	oyees
		[			<u>left.</u>				- [
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<b>-</b>	<del> </del>	<del></del>	<del></del>			PFR	DIEM TOTA	ALS.	<u> </u>
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} <del></del>		<del>                                     </del>	<del></del>			USED TODAY		2	į
<del> </del>		<del>                                     </del>	<u> </u>			PREVIOUS REPOR		69	
		<del>                                     </del>				START OF PROJEC		71	li I
	A MOLIDE ON 100	<del> </del>	WAS A PROPERTY.		Thre Dates	- FIGURE		LOST TIME ACCIDE	MTS THE DATE
SITE THIS DA	(HOURS ON JOB TE	47.5	WAS A JOB SAFETY	MCE I ING MEU	o ima unite?		AND HIGHE WAY	COST TIME ACCIDE	ATO INDUATE?
<del></del>	TOTAL OF WORK	1	[]YES	[X] NO			[]YE8	DZ] NO	<b>,</b>
HOURS FROM	I PREVIOUS REPORT	1111.5	]			`		•	ļ
TOTAL WORK	(HOURS FROM		IF YES", ATTACH CO	PY OF MEETIN	G RECORD		IF "YES", ATTACH C	COMPLETED OSHA F	FORM
START OF PR	KOJECT	1159	ויסז	HIS REPORT			70	THIS REPORT	
			PROJECT SA			_	··········		<u>.</u>
	DESCRIPTION	SOIL	WPE	CONCRETE	WATER	OTHER		COMMENTS	
<u> </u>	LLECTED THIS DATE:	<del> </del>	<del> </del> -			·			
PREVIOUS CI	MULATIVE TOTAL:	<del> </del>	<del> </del>			<b>}</b>		<del></del>	
TOTAL SALEP	LES COLLECTED:	<u></u>	<u> </u>			<u> </u>			

## PROJECT QUANTITY SUMMARY

WRS	Г	KOJECI WO	ı	REPORT DATE			
		(Please write in categorie	categories no specified)			Friday	16-Oct-68
_	UNIT OF	QUANTITY	PRE	vicos	а	URRENT PROJEC	श (
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		1668			1,668	
TRENCH BACKFILLED	FEET	156	. 968			1,124	
HDPE PIPE REMOVED	FEET		964			964	
VAULTS REMOVED	EACH		17			17	
WELLS INSTALLED	EACH		13			13	
HDPA PIPE INSTALLED	FEET	223	525			748	
VAULTS INSTALLED	EACH		5			5	
ELECTRICAL CONDUIT	FEET		390			390	
WELL CUTTINGS	DRUM		86			86	
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			<u> </u>				
		·		<u> </u>		1	<u> </u>
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMO
PROJECT MAT	TERIAL LIST	·	(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE				·		N/A	N/A
VISQUEEN				<del> </del>		N/A	N/A
DRUMS	<u> </u>	<u></u>		. 86	86	N/A	N/A
BARRICADE TAPE				- 400	400	N/A	N/A
2" HDPE PIPE			48	587	636	N/A	· N/A
PRE-CAST VAULTS		·		5	5	N/A	N/A
EMBEDMENT SAND				- 7	7	N/A	N/A
1" HDPE PIPE			223	231	454	N/A	N/A
3" HDPE PIPE						N/A	N/A
				<u></u>		N/A	N/A
						N/A	N/A

(HTS)	PROJECT QUA	NTITY S	UMMAR	Y		REPORT DATE
		(continued)		<del></del>	Friday	16-Oct-68
SPLOOVIG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE II		IN JOB		COMMENTS	
·	Refer to daily cost summary sheets attache	d.	ļ			
			ļ		·-··	
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			<del></del>	······································		
Р	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK	, , , , , , , , , , , , , , , , , , ,	1	33	34	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	32	33	8-Sep-98	
PORTABLE TOILET		1	32	33	8-Sep-98	
RADIOS		3	90	93	8-Sep-98	
ORGANIC VAPOR MON	NITOR	1	30	31	8-Sep-98	
BOXTRUCK		1	30	31	8-Sep-98	
MINI EXCAVATOR		1	26	27	14-Sep-98	
R L MINI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	(		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	20	21	23-Sep-98	
RENTAL MINI HOE			5	. 5	6-Oct-98	12-Oct-98
COMPACTOR		1	4	5	12-Oct-98	
RENTAL PUMP			2	2 .	6-Oct-98	8-Oct-98
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		QUA	LITY CONTROL	REPORT		REPORT DATE
					Friday	/ 16-Oct-98
		LOCATIO	ON AND DESCRIPTION OF	DEFICIENCIES		
		(M:	sterials, Equipment, Safety, and/or W	orkmanship)		
	Notified Plastic on correcting t	r Fushion that the Ring the problem.	and Cover gaskets	were placed (	on the wrong side. T	hey are ve work
	,					
CHANGE IN	CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER		
BIDITEM		DESCRIPTION OF C	HANGE	-	QUANTITY CHANGE	NEW TOTAL
	<u></u>					
<u></u>						
		<u> </u>				
	<del></del>		· · · · · · · · · · · · · · · · · · ·			
						<u> </u>
REMARKS:	(INCLUIDE DIRECTIONS FR	COM CLIENT, VISITORS, COMPLIANCE NO	TICES, SAFETY INSPECTIONS, AND	OTHER PERTINENT IN	FORMATION)	
to get rein	nbursed for the mon	he existing electrical conduit ey for (removal, staging and e ed the WRS crew to remove to	disposal). I imformed hi			
Attachm		uilgate Safety Meeting uality Control Report		`		
1	Sant	<b>3</b>				
(PRS)	Joe And	derson/Richard Scott	<del></del> -			
	WESTINGHOUSE RI	EMEDIATION SERVICES, INC.		RADIAN I	NTERNATIONAL, LLC	

(ITES)			DAILY P	RODU	CTION	REPORT		<del>_</del> .	REPORT DATE		
								Saturday	17-Oct-88		
er Co	DER NO.		TITLE AND LOCATION	•	Sol-Lynn Si	ite		REPORT NO.			
ARS JOB NO.	4412-98-40	290		Houstor	n, Texas			32			
LIENT NAME					PROJECT MANAG				•		
Texas Na	atural Resource Conse	vation Com	mission			Joe Anderso	on/Richard So	cott			
VEATHER AN	Cloudy	·			TEMPERATURE-	<u>w</u>	60's				
VEATHER PM	cloudy Cloudy		··		TEMPERATURE P		80's				
	WESTINGHOUSE / SUBCONTRAC	TOR WORKFORCE	· · · · · · · · · · · · · · · · · · ·		LOCATION AND DESCRIPTION OF WORK PERFORMED						
LIMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite @	6:45 am co	nducted safe	ety &		
1	Project Manager	8	WRS			n meeting.		4-0			
1	HS/QC Officer	8	WRS	<del>,</del>		_		<u>  containmer</u>   nound area).			
1	Operator	8.5	WRS		148' of pir	e was laid.	Received n	ew welding	machine_		
1	Contract Labor	19	Greenfield	ď			<u>machine and</u>	d mounted it	onto a		
:			· -		piece of w		uma hackfi	llad taday	1		
			14/70				ı was backfi oncrete pad	s on DS-1, M	WL30 &		
	Operator		WRS					-7 and MW-			
			<u> </u>			ntrol was us		,			
	<u> </u>				Houston o	concrete cut	ting sawed	76' of aspha	It and 27'		
							<u>e back parki</u>	ng area of th	ne cell		
					phone sto						
-	<del></del>	<del></del>	<u> </u>					n on the non			
	<u> </u>				the existing		<u> Jilipouliu to</u>	remove the	iest oi		
							e dav and a	II WRS empl	ovees		
			}		left.						
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	<del></del>					PER	DIEM TOTA	ALS			
				-		<u> </u>	cluding weekend	j	1		
		<del>-  </del>	<del>                                     </del>			USED TODAY		2			
			<del>                                     </del>			PREVIOUS REPOR	σ	71			
	<del> </del>					START OF PROJEC		73			
TOTAL WORK	(HOURS ON JOB		WAS A JOB SAFETY	WEETING HEL	D THIS DATE?		WERE THERE AN	LOST TIME ACCIDE	NTS THIS DATE?		
SITE THIS DA		43.5				٠		_			
CUMULATIVE	TOTAL OF WORK		[]YES	[X] NO			[]YES	рд но			
HOURS FROM	I PREVIOUS REPORT	1159							ł		
TOTAL WORK	(HOURS FROM		IF "YES", ATTACH CO	PY OF MEETIN	IG RECORD		IF YES", ATTACH (	COMPLETED OSHA	FORM .		
START OF PR	KOJECT	1202.5	топ	HIS REPORT	=======================================		то	THIS REPORT			
<u></u> _			PROJECT SA	MPLE L	.og						
	DESCRIPTION	SOIL	WPE	CONCRETE	WATER	OTHER		COMMENTS			
<u>s</u> 4	LLECTED THIS DATE:					<u> </u>	<u> </u>				
PREVIOUS CL	UMULATIVE TOTAL:										
TOTAL SAMP	LES COLLECTED:										

## PROJECT QUANTITY SUMMARY

		(Please write in categories r	no specified)			Saturday	17-Oct-88
	UNIT OF	QUANTITY	PRE	vious	a	JRRENT PROJE	<b>ст</b>
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	<b>_</b>
TRENCH EXCAVATED	FEET		1668			1,668	
FRENCH BACKFILLED	FEET	15	1124		. <u>—</u>	1,139	
IDPE PIPE REMOVED	FEET		964			964	
/AULT'S REMOVED	EACH		17		<u> </u>	17	
MELLS INSTALLED	EACH		13			13	
HOPA PIPE INSTALLED	FEET	148	748			896	
VAULTS INSTALLED	EACH		5		i 	5	
ELECTRICAL CONDUTT	FEET		390			390	
WELL CUTTINGS	DRUM		86			86	· · · · · · · · · · · · · · · · · · ·
		·					
		<u>.</u>	<u> </u>		<u></u> -		<del></del>
<u> </u>						<u> </u>	
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·		<u> </u>	<u> </u>			<del></del>	
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					<del></del>	<u> </u>	
			<u> </u>			<del></del>	
	<u>-</u>		USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST, REMOVAL
PROJECT MATE	RIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE	<u></u>	<u> </u>				N/A	N/A
MISQUEEN	•					N/A	N/A
DRUMS	<del></del>			86	86	N/A	N/A
BARRICADE TAPE		<del> </del>		400	400	N/A	N/A
2" HOPE PIPE		<del></del>	223	364	587	N/A	N/A
PRE-CAST VAULTS		<del></del>		5	5	N/A	N/A
EMBEDMENT SAND				. 7	7	N/A	N/A
1° HDPE PIPE			223	231	454	N/A	N/A
3" HDPE PIPE			<del> </del>			N/A	N/A
[						N/A	N/A
						N/A	N/A

(WIES)	PROJECT QUANTITY SUMMARY						
		(continued)	<u>.</u>		Saturday	17-Oct-98	
SPES LOWG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE	NCORPORATED	IN JOB		COMMENTS	<u>.</u>	
	Refer to daily cost summary sheets attache	d.		۸			
				<u> </u>			
					<u>-</u>		
					·····		
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL	
		(EACH)	(DAYS)	(DAYS)	DATE	DATE	
CREW TRUCK		1	33	34	21-Sep-98		
RENTAL CAR			16	16	8-Sep-98	28-Sep-98	
OFFICE TRAILER		1	32	33	8-Sep-98		
PORTABLE TOILET		1	32	33	8-Sep-98		
RADIOS		3	90	93	8-Sep-98		
ORGANIC VAPOR MO	NITOR	1	30	31	8-Sep-98		
BOXTRUCK	· · · · · · · · · · · · · · · · · · ·	11	30	31	8-Sep-98		
MINLEXCAVATOR		1	26	27	14-Sep-98		
R. MINI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98	
RENTAL COMPRESSO	DR		3	3	21-Sep-98	24-Sep-98	
RENTAL DUMP TRUC	κ		1	1	15-Sep-98	15-Sep-98	
RENTAL BACKHOE		1	20	21	23-Sep-98		
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98	
COMPACTOR	· ·	1	4	5	12-Oct-98		
RENTAL PUMP			2	2	6-Oct-98	8-Oct-98	
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			•				

	WES		QUA	LITY CONTROL	REPORT		REPORT DATE
CHANGE IN CONTRACT: GHANGE ORDER GEXTRA WORK OTHER  BOTTOM DESCRIPTION OF CHANGE  OUANTITY CHANGE NEW TOTAL  REMARKS: INCLUSE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAPETY MERFECTIONS, AND OTHER PRINTINGS IN NOVAMATION.  Attachments: WRS Taligate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott			· · · · · · · · · · · · · · · · · · ·			Saturday	17-Oct-88
CHANGE IN CONTRACT: CHANGE ORDER EXTRA WORK OTHER  BDITEM CESCRIPTION OF CHANGE QUANTITY CHANGE NEW TOTAL  REMARKS: (NICLUSE DREIGTIONS FROM CLIENT, VISITORS, COMPLANCE NOTICES, SAFETY MISPECTIONS, AND OTHER PERTYLINT INFORMATION)  Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott			LOCATIO	ON AND DESCRIPTION OF	DEFICIENCIES		
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott		***	(Ma	steriuls, Equipment, Safety, and/or V	(orkmenship)	<del></del>	
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott		i:					
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott	·						
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott		,					
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
Attachments: WRS Taigate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott			· · · · · · · · · · · · · · · · · · ·				
REMARKS: (NOLUDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT INFORMATION)  Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott	CHANGE IN	CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER	<del></del>	
REMARKS: (NOLUDE DRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT INFORMATION)  Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott						<del></del>	
REMARKS: (NOLIDE DIRECTIONS FROM CLIENT, VISITORIS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT INFORMATION)  Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott	ВЕОПЕМ		DESCRIPTION OF CH	ANGE		QUANTITY CHANGE	NEW TOTAL
REMARKS: (NOLIDE DIRECTIONS FROM CLIENT, VISITORIS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT INFORMATION)  Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott			·				
REMARKS: (NOLIDE DIRECTIONS FROM CLIENT, VISITORIS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT INFORMATION)  Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott					- <u></u>		
REMARKS: (NOLIDE DIRECTIONS FROM CLIENT, VISITORIS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT INFORMATION)  Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott		<u> </u>		<u> </u>			
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott				<u></u>			
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott		·		<u> </u>			
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott							
Attachments: WRS Tailgate Safety Meeting WRS Quality Control Report  Joe Anderson/Richard Scott		·					
WRS Quality Control Report  Joe Anderson/Richard Scott	REMARKS:	(INCLUDE DIRECTIONS FI	ROM CLIENT, VISITORS, COMPLIANCE NOT	TICES, SAFETY INSPECTIONS, AND	OTHER PERTINENT IN	FORMATION)	
WRS Quality Control Report  Joe Anderson/Richard Scott							
WRS Quality Control Report  Joe Anderson/Richard Scott	·						,
WRS Quality Control Report  Joe Anderson/Richard Scott	i						!
WRS Quality Control Report  Joe Anderson/Richard Scott							
WRS Quality Control Report  Joe Anderson/Richard Scott	!						
WRS Quality Control Report  Joe Anderson/Richard Scott							
WRS Quality Control Report  Joe Anderson/Richard Scott							
WRS Quality Control Report  Joe Anderson/Richard Scott	Attachme	ents: WRS T	ailgate Safety Meeting				
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		Ing An	derson/Richard Scott			·:	
				<u></u>	ΡΑΠΙΔΝ ΙΙ	NTERNATIONAL LLC	

(VZS)		<u> </u>	DAILY PR	RODU	CTION	REPORT		_	REPORT DATE
4			<del> </del>					Monday	19-Oct-68
DELIVERY ORD	DER NO.		TITLE AND LOCATION	;	Sol-Lynn Si	te	1	REPORT NO.	
ARS JOB NO.	4412-98-402	90	<u> </u>	Houston	i, Texas		, , , , , , , , , , , , , , , , , , ,	33	
CUENT NAME	L   D   O			ŀ	PROJECT MANAG		o Michael Co	<b>u</b>	
l exas Na	itural Resource Conser	vation Com	mission				n/Richard So	XXII	
WEATHER-AM	· · · · · · · · · · · · · · · · · · ·	<del></del>	<del></del>	<del>-</del>	EMPERATURE-A		60's		
WEATHERPM	<del></del>				TEMPERATURE-P		80'S	TION	<del></del>
	WESTINGHOUSE / SUBCONTRACT	OK WORKFORCE	•				WORK PERFORM		
NUMBER	TRADE	Hours	EMPLOY	ER	WRS arrive	ed onsite @	6:45 am coi	nducted safe	ety &
1	Project Manager	88	WRS			n meeting.			
1	HS/QC Officer	8	WRS				in water fro leted on any		
1	Operator	4	WRS		It is agreed	d between R	ladian and V		
1	Contract Labor	8	Greenfield		RAIN DAY.	="			
			<u> </u>			losed for th	e day and al	I WRS emplo	oyees
		<del>                                     </del>	WRS		<u>left.</u>				
	Operator	<del>                                       </del>	VVKS						1
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						(in	cluding weekend	s)	
<u> </u>		<u> </u>		]		USED TODAY	<del></del>	3	
						PREVIOUS REPOR	<u> </u>	73	
L		<u> </u>				START OF PROJEC	ञ	76	
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY M	EETING HELI	THIS DATE?	<u> </u>	WERE THERE MY	LOST TIME ACCIDE	NTS THIS DATE?
SITE THES DAT	TE	28	1						
	TOTAL OF WORK	1202.5	[]YES	DX ) NO		~	[]YE8	DQ NO	
	PREVIOUS REPORT	1202.5		v or recent	0.00000		ENERS ATTACHE		TODA 4
START OF PRO		1230.5	IF "YES", ATTACH COP	Y OF MEETIN IS REPORT	™ KECURU	٠		XOMPLETED OSHA F THIS REPORT	-Orom
			<del>'</del>		00				
	DESCRIPTION	SOIL	PROJECT SA	MPLE L	WATER	OTHER		COMMENTS	
SA S COL	LECTED THIS DATE:								
	MULATIVE TOTAL:							<u></u> -	
TOTAL SAMPL	ES COLLECTED:								

(FRS	PROJECT C	UANTITY S	UMMAR	Y		REPORT DATE	
		(continued)			Monday	19-Oct-88	
SPEC/DWG NO.		efer to daily cost summary sheets attached.					
	PROJECT EQUIPMENT LIST		PREVIOUS USE	TOTALUSE	ARRIVAL	REMOVAL	
		(EACH)	(DAYS)	(DAYS)	DATE	DATE	
CREWTRUCK		1	34	35	21-Sep-98		
RENTAL CAR			16	16	8-Sep-98	28-Sep-98	
OFFICE TRAILER		1	33	34	8-Sep-98		
PORTABLE TOILET		1	33	34	8-Sep-98	· ·	
RADIOS	· ·	3	93	96	8-Sep-98		
ORGANIC VAPOR MO BOXTRUCK	WITOR	1	31 31	32 32	8-Sep-98 8-Sep-98		
MINI EXCAVATOR		1	27	 	14-Sep-98		
RENTAL MINI EXCAV	ATOR		6	6	21-Sep-98	28-Sep-	
RENTAL COMPRESS			3	3	21-Sep-98	24-Sep-98	
RENTAL DUMP TRUC			1	. 1	15-Sep-98	15-Sep-98	
RENTAL BACKHOE		1	21	22	23-Sep-98	10 оср сс	
RENTAL MINI HOE			5		6-Oct-98	12-Oct-98	
COMPACTOR		1	5	. 6	12-Oct-98		
RENTAL PUMP		1	2	3			
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was		QUA	LITY CONTROL	REPORT		REPORT DATE
(S)	·— <u>—</u> ———	!			Monday	19-Oct-68
		LOCATIO	ON AND DESCRIPTION OF	DEFICIENCIES		
	<u></u>	(Ms	aterials, Equipment, Safety, and/or W	Vorkmanship)		
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C IANGE II	· CONTRACT:	T average oppen				
CHANGE III	N CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER		
вір ітем		DESCRIPTION OF CH	HANGE		QUANTITY CHANGE	NEW TOTAL
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REMARKS:	(INCLUDE DIRECTIONS FI	ROM CLIENT, VISITORS, COMPLIANCE NOT	TICES, SAFETY INSPECTIONS, AV	D OTHER PERTINENT IN	FORMATION)	
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Attachm		ailgate Safety Meeting				
		Quality Control Report				
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	Sin			<u> </u>		
		nderson/Richard Scott REMEDIATION SERVICES, INC.		PADIAN II	NTERNATIONAL, LLC	
	TILO INTO HOUSE	EMEDIATION SERVICES, 1110.		(Maria iii	ALLINIALIONAL, PEA	

(VIII)			DAILY PRO	DUCTION	REPORT		·	REPORT DATE
ELIVERY ORD			TITLE AND LOCATION	Sol-Lynn S	ite		Tuesday REPORT NO.	20-Oct-88
٧				*				
AS JOB NO.	4412-98-4029	30		ouston, Texas			34	
JENT NAME Jevas Na	tural Resource Conserva	ation Comr	mission	PROJECTIMANAG	-	on/Richard So	ott	ľ
WEATHER-AM	0, 1		Institut	TEMPERATURE.A		60's		·
	Cloudy		<del></del>	TEMPERATURE F	··	80's	<del></del>	
VEATHER-PM	WESTINGHOUSE / SUBCONTRACTO	OR WORKFORCE		TEN EN OUT	LOCAT	ION AND DESCRIP WORK PERFORM		
rumber	TRADE	HOURS	EMPLOYER	WRS arriv	ed onsite @	6:45 am cor	nducted safe	etv &
	Project Manager	8	WRS		n meeting.	<u> </u>		<del>,, _</del>
			_ <del></del>			in water fro	m open tren	ches.
1	HS/QC Officer	8	WRS	11		<u>leted on any</u>		
1	Operator		WRS			<u>ladian and V</u>	VRS that this	s is a
1	Contract Labor	8	Greenfield	RAIN DAY		المستميرة والمستم	! !!!!!!!!!	
			-	Site was c	iosea for th	e day and al	vyko empi	oyees
1	Operator		WRS	1516				
			VVICO	─		,		
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	ļ — — — —	ļ			(in	cluding weekend	(S)	
					USED TODAY		3	İ
		<u> </u>	<u> </u>		PREVIOUS REPOR	π	76	
					START OF PROJEC	T	79	j
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY MEET	ING HELD THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?
SITE THIS DAT	E	_24						
CLMULATIVE	TOTAL OF WORK	40	[]YES	DX I NO		[]YES	DQ NO	
HOURS FROM	PREVIOUS REPORT	1230.5			-			
	HOURS FROM	1054.5	IF "YES", ATTACH COPY OF	_		IF YES", ATTACH C		FORM
START OF PR	OJECT	1254.5	тотнізя	SEPORT		TO	THIS REPORT	
			PROJECT SAMI			<u> </u>		
	DESCRIPTION	SOIL	WIPE CON	CRETE WATER	OTHER		COMMENTS	
SAMPLO	LLECTED THIS DATE:	<del>                                      </del>	<del> </del>			<del> </del>		·
PREVIOUS (31	MULATIVE TOTAL:	<del> </del>	<del>  </del>		ļ	<u> </u>	<u>-</u>	<del></del> _
TOTAL SAMPL	ES COLLECTED:	<u> </u>	<u> </u>			<u> </u>		

# BTRS

## PROJECT QUANTITY SUMMARY

		(Please write in categories	s no specified)	·	<del></del>	Tuesday	20-Oct-88
	UNIT OF	QUANTITY	PRE	Mous	a	JRRENT PROJEC	ा 🔻
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	-
RENCH EXCAVATED	FEET		1668		i	1,668	
RENCH BACKFILLED	FEET		1139	·		1,139	
IDPE PIPE REMOVED	FEET		964			964	
AULTS REMOVED	EACH		17			17	
VELLS INSTALLED	EACH		13			13	
IDPA PIPE INSTALLED	FEET	<u> </u>	896	i		896	
/AULTS INSTALLED	EACH					5	
ELECTRICAL CONDUIT	FEET		390			390	
MELL CUTTINGS	DRUM		86				
					<del></del>		<del></del>
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				T	·		r
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATE	RIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE ·			<u> </u>			N/A	N/A
VISQUEEN						N/A	N/A
DRUMS				86	86	N/A	N/A
BARRICADE TAPE				400	400	N/A	N/A
2' HDPE PIPE	·			587	587	N/A	N/A
PRE-CAST VAULTS				5	5	N/A	N/A
EMBEDMENT SAND				7	7	N/A	N/A
1" HDPE PIPE				454	454	N/A	N/A
3" HDPE PIPE						N/A	N/A
						N/A	N/A
						N/A	N/A

(WTS)	PROJECT QUA	ANTITY S	UMMAR	Y		REPORT DATE
<u> </u>	<del></del>	(continued)			Tuesday	20-Oct-88
SPEC / SUIG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		IN JOB	<del>-</del>	COMMENTS	
	Refer to daily cost summary sheets attach	ea.		•	-	
					-	· ·
	1			·		
			<del>,</del>			
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	35	36	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	34	35	8-Sep-98	
PORTABLE TOILET		1	34	35	8-Sep-98	
RADIOS		3	96	99	8-Sep-98	
ORGANIC VAPOR MO	NITOR	1	32	33	8-Sep-98	
BOXTRUCK		1	32	33	8-Sep-98	
MINI EXCAVATOR		1	28	. 29	14-Sep-98	
REN MINI EXCAVA	ATOR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	DR		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUC	 к_		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	. 22	23	23-Sep-96	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	6	7	12-Oct-98	
RENTAL PUMP		1	3	4		
		_				
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		†	<del> </del>	· · · · · ·		<del>                                     </del>
		<del>- </del>	<u> </u>	<del></del>	<del></del>	
		1	†	<del></del>	<del>                                     </del>	<del> </del>

WRS	QUALITY CONTROL REPORT	Tuesday	REPORT DATE
		Tuesday.	20-Oct-68
_	LOCATION AND DESCRIPTION OF DEFICIENCIES		
<u> </u>	(Materials, Equipment, Safety, and/or Workmanship)		
	,		•
		•	
		<u> </u>	
CHANCE IN	CONTRACT: CHANGE ORDER DEXTRA WORK OTHER	<u></u>	
CHANGE IN	CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
BOTEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
301111	DEBOTIFICATION OF WHITE	QOATHT GIATGE	WENT TOTAL
		1	
<del></del>			
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT IN	PORMATION)	
			'
Attachm			
	WRS Quality Control Report		
	01-11		
	Siell		
PES	Joe Anderson/Richard Scott		
	WESTINGHOUSE REMEDIATION SERVICES, INC. RADIAN II	NTERNATIONAL, LLC	

WTS			DAILY PF	RODU	CTION I	REPORT			REPORT DATE	
$\leq$			<del></del>			·		Thursday	22-Oct-88	
ELVERY OR	DER NO.		TITLE AND LOCATION	;	Sol-Lynn Si	te	1	REPORT NO.		
VRS JOB NO.	4412-98-402	90	<u> </u>	Houston	, Texas			36		
LIENT NAME				ļr	PROJECT MANAG		Michael O	44	ļ	
rexas Na	tural Resource Conser	vation Comi	mission				on/Richard Sc	xott		
WEATHER-AM			<u> </u>		EMPERATURE-A		60's			
WEATHER-PM	Sunny WESTINGHOUSE / SUBCONTRACT				TEMPERATURE-PM 80'S  LOCATION AND DESCRIPTION					
	WESTINGHOUSE/SUBCONTRAC	OK WORKFORGE	·	]	e .		WORK PERFORM		ļ	
NUMBER	TRADE	HOURS	EMPLOY	ER	WRS arriv	ed onsite @	6:45 am cor	nducted safe	ety &	
1	Project Manager	8	WRS				Received 4 lo	oads of sand	and 1	
1	HS/QC Officer	8	WRS			uched rock.	pumping wa	ater from all	onen	
1	Operator	11	WRS	II.			vated trench			
· 1	Contract Labor	22	Greenfield	1			rician also p	laced condu	uit along	
·	Conduct Editor					of cell phone				
		<del>                                     </del>				Mw-32 and	s poured the	pad for MW	<u>-27 and</u>	
1	Operator	-11	WRS	II.		new hoe wit			\ <b> </b>	
		<u> </u>		11			drawing A-	5 on disk.	ĺi.	
							e day and al		<u>oyees</u>	
	,				<u>left.</u>					
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		ļ								
					,	-		<del></del>		
						PER	DIEM TOTA	ALS		
						(in	cluding weekend	s)		
-			<del> </del>			USED TODAY		3		
						PREVIOUS REPOR		82		
						START OF PROJEC		85		
TOTAL WORK	HOURS ON JOB	+	WAS A JOB SAFETY M	EEDNG HELI	THIS DATE?		<del></del>	LOST TIME ACCIDE	NTS THIS DATE?	
SITE THIS DAT		60								
CUMULATIVE	TOTAL OF WORK		[]YES	[X] NO			[ ]YES	рд но		
HOURS FROM	I PREVIOUS REPORT	1314.5	1							
	HOURS FROM	1274 5	IF "YES", ATTACH COP		G RECORD			COMPLETED OSHA I	FORM	
START OF PROJECT 1374.5			<u>HI OT </u>	IS REPORT	<del></del>	<u> </u>		THIS REPORT		
			PROJECT SA				T	001-00-		
	DESCRIPTION	SOIL	WIPE C	ONCRETE	WATER	OTHER		COMMENTS		
	LLECTED THIS DATE:	<del> </del>				<del></del> -				
	MALATIVE TOTAL:	<del> </del>	}			<del> </del>	<del> </del>			
TOTAL SAMP	LES COLLECTED:			Į		<u> </u>	<u> </u>			

# (UTS)

### PROJECT QUANTITY SUMMARY

REMON BACKFULED FEET 1139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.139 1.13			(Please write in categories n	o specified)			Thursday	22-Oct-88
REINCH EXCAVATED FEET 00 1693 1,728  RIENCH BACKFILLED FEET 1139 1,139		UNITOF	QUANTITY	PRE	MOŪS	α	JRRENT PROJEC	ा
RENCHERORGILED FEET 1139 1,138  GORE PIRE REMOVED FEET 984 984  AULT REMOVED EACH 17 17 17  AULT SHETALED EACH 13 13 13  CERA PIRE INSTALLED EACH 15 5 5  BECTRICAL CONDUST FEET 489 490 490  AULT SHETALED EACH 5 6 88  AULT SHETALED EACH 5 5 5  BECTRICAL CONDUST FEET 489 490 490  AULT CUTTINGS DRUM 56 6 88  PROJECT MATERIAL LIST (EACH) (CAYS) SITE DATE  PROJECT MATERIAL LIST (EACH) (CAYS) SITE DATE  WISCUEEN NA NA NA NA NA NA PRE-CAST VALUE S 5 5 NA NA NA NA PRE-CAST VALUE S 5 5 NA NA NA NA NA NA PRE-CAST VALUE S 5 5 NA NA NA NA NA NA NA NA NA NA NA NA NA	DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
DPE PRE REMOVED	RENCH EXCAVATED	FEET	60	1668			1,728	
### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  #### APPLIES PROMOVED  ##### APPLIES PROMOVED  ##### APPLIES PROMOVED  ##### APPLIES PROMOVED  ##### APPLIES PROMOVED  ###### APPLIES PROMOVED  ########## APPLIES PROMOVED  ###################################	FRENCH BACKFILLED	FEET		1139	_		1,139	
MELIS INSTALLED	IDPE PIPE REMOVED	FEET		964		964		
### PRED   PEET   1017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017   1,017	/AULTS REMOVED	EACH		17	17		17	
### PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  PROJECT MATERIAL L	MELLS INSTALLED	EACH		13			13	
### PROJECT MATERIAL LIST   USED TODAY   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA   REVIOUS USE   TOTAL USE   REM	1DPA PIPE INSTALLED	FEET		1017			1,017	
PROJECT MATERIAL LIST    USED TODAY   REVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA	VAULTS INSTALLED	EACH		5			5	
PROJECT MATERIAL LIST    USED TODAY   PREVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA	ELECTRICAL CONDUIT	FEET	,	490			490	
PROJECT MATERIAL LIST  PROJECT MATERIAL LIST  (EACH)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)  (DAYS)	WELL CUTTINGS	DRUM		86			86	
PROJECT MATERIAL LIST    USED TODAY   PREVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA								
PROJECT MATERIAL LIST    USED TODAY   PREVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA								·
PROJECT MATERIAL LIST    USED TODAY   PREVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVA						<u> </u>		
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE TOTAL USE REMAIN ON EST. REMOVA  (EACH) (DAYS) (DAYS) SITE DATE  PPE  N/A N/A  N/A N/A  N/A N/A  DRUMS  86 86 NA NA N/A  BARRICADE TAPE  121 708 829 N/A N/A  PRE-CAST VAULTS  5 5 N/A N/A  PRE-CAST VAULTS  4 8 12 N/A N/A  1" HOPE PIPE  454 454 N/A N/A  N/A  N/A  N/A  N/A  THOPE PIPE  Crushed Rock 1 1 1 N/A N/A  N/A  N/A  N/A  N/A  N/A  N/A					·	·		
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE TOTAL USE REMAIN ON EST. REMOVA  (EACH) (DAYS) (DAYS) SITE DATE  PPE  N/A N/A  N/A N/A  N/A N/A  DRUMS  86 86 NA NA N/A  BARRICADE TAPE  121 708 829 N/A N/A  PRE-CAST VAULTS  5 5 N/A N/A  PRE-CAST VAULTS  4 8 12 N/A N/A  1" HOPE PIPE  454 454 N/A N/A  N/A  N/A  N/A  N/A  THOPE PIPE  Crushed Rock 1 1 1 N/A N/A  N/A  N/A  N/A  N/A  N/A  N/A						: 		:
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE TOTAL USE REMAIN ON EST. REMOVA  (EACH) (DAYS) (DAYS) SITE DATE  PPE  N/A N/A  N/A N/A  N/A N/A  DRUMS  86 86 NA NA N/A  BARRICADE TAPE  121 708 829 N/A N/A  PRE-CAST VAULTS  5 5 N/A N/A  PRE-CAST VAULTS  4 8 12 N/A N/A  1" HOPE PIPE  454 454 N/A N/A  N/A  N/A  N/A  N/A  THOPE PIPE  Crushed Rock 1 1 1 N/A N/A  N/A  N/A  N/A  N/A  N/A  N/A								
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE TOTAL USE REMAIN ON EST. REMOVA  (EACH) (DAYS) (DAYS) SITE DATE  PPE  N/A N/A  N/A N/A  N/A N/A  DRUMS  86 86 NA NA N/A  BARRICADE TAPE  121 708 829 N/A N/A  PRE-CAST VAULTS  5 5 N/A N/A  PRE-CAST VAULTS  4 8 12 N/A N/A  1" HOPE PIPE  454 454 N/A N/A  N/A  N/A  N/A  N/A  THOPE PIPE  Crushed Rock 1 1 1 N/A N/A  N/A  N/A  N/A  N/A  N/A  N/A								
PROJECT MATERIAL LIST         (EACH)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           8ARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         121         708         829         N/A         N/A           PRE-CAST VAULTS         5         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HDPE PIPE         454         454         N/A         N/A           S" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A	•		:					
PROJECT MATERIAL LIST         (EACH)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           8ARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         121         708         829         N/A         N/A           PRE-CAST VAULTS         5         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HDPE PIPE         454         454         N/A         N/A           S" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A								<u> </u>
PROJECT MATERIAL LIST         (EACH)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           8ARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         121         708         829         N/A         N/A           PRE-CAST VAULTS         5         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HDPE PIPE         454         454         N/A         N/A           S" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A								····
PROJECT MATERIAL LIST         (EACH)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           8ARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         121         708         829         N/A         N/A           PRE-CAST VAULTS         5         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HDPE PIPE         454         454         N/A         N/A           S" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A								<u> </u>
PROJECT MATERIAL LIST         (EACH)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           8ARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         121         708         829         N/A         N/A           PRE-CAST VAULTS         5         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HDPE PIPE         454         454         N/A         N/A           S" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A								
PROJECT MATERIAL LIST         (EACH)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           8ARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         121         708         829         N/A         N/A           PRE-CAST VAULTS         5         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HDPE PIPE         454         454         N/A         N/A           S" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A								<del> </del>
PROJECT MATERIAL LIST         (EACH)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           8ARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         121         708         829         N/A         N/A           PRE-CAST VAULTS         5         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HDPE PIPE         454         454         N/A         N/A           S" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A								_
PROJECT MATERIAL LIST         (EACH)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           8ARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         121         708         829         N/A         N/A           PRE-CAST VAULTS         5         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HDPE PIPE         454         454         N/A         N/A           S" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A				USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST REMOVA
PPE         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           BARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         121         708         829         N/A         N/A           PRE-CAST VAULTS         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HDPE PIPE         454         454         N/A         N/A           3" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A	PROJECT MATI	ERIAL LIST						1
VISQUEEN         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           BARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         121         708         829         N/A         N/A           PRE-CAST VAULTS         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HDPE PIPE         454         454         N/A         N/A           3" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A								Î
DRUMS 86 86 N/A N/A  BARRICADE TAPE 400 400 N/A N/A  2" HDPE PIPE 121 708 829 N/A N/A  PRE-CAST VAULTS 5 5 N/A N/A  EMBEDMENT SAND 4 8 12 N/A N/A  1" HOPE PIPE 454 454 N/A N/A  S" HDPE PIPE N/A N/A  Crushed Rock 1 1 N/A N/A		· · · · · · · · · · · · · · · · · · ·				<del></del>		
BARRICADE TAPE       400       400       N/A       N/A         2" HDPE PIPE       121       708       829       N/A       N/A         PRE-CAST VAULTS       5       5       N/A       N/A         EMBEDMENT SAND       4       8       12       N/A       N/A         1" HDPE PIPE       454       454       N/A       N/A         3" HDPE PIPE       N/A       N/A       N/A         Crushed Rock       1       1       N/A       N/A		·			86	86		<del></del>
2" HDPE PIPE       121       708       829       N/A       N/A         PRE-CAST VAULTS       5       5       N/A       N/A         EMBEDMENT SAND       4       8       12       N/A       N/A         1" HDPE PIPE       454       454       N/A       N/A         S" HDPE PIPE       N/A       N/A       N/A         Crushed Rock       1       1       N/A       N/A			<del></del>					i
PRE-CAST VAULTS         5         5         N/A         N/A           EMBEDMENT SAND         4         8         12         N/A         N/A           1" HOPE PIPE         454         454         N/A         N/A           3" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A				121				·
### EMBEDMENT SAND  4 8 12 N/A N/A  1" HOPE PIPE  454 454 N/A N/A  S" HOPE PIPE  Crushed Rock 1 1 N/A N/A								<u> </u>
1" HÖPE PIPE         454         454         N/A         N/A           3" HÖPE PIPE         N/A         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A		<u> </u>		4			<del></del>	
3" HDPE PIPE         N/A         N/A         N/A           Crushed Rock         1         1         N/A         N/A				<del></del>				
Crushed Rock 1 1 N/A N/A				<del> </del>				-
	O THEFTIFE		Carehad Beel	<del></del>	<del>                                     </del>	4		<del></del>
	<del></del>	<del></del>	Gustied Rock	<del>  -</del> '		<del></del>	N/A N/A	N/A N/A

	PROJECT QUA		UMMAR	Y		REPORT DATE
<u> </u>		(continued)		<u></u> -	Thursday	22-Oct-88
SPEC / DWG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE !!		IN JOB		COMMENTS	
· · · · · · · · · · · · · · · · · · ·	Refer to daily cost summary sheets attache	u.				· · · · · ·
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	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	37	38	21-Sep-98	
RENTAL CAR			16	16`	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	36	37	8-Sep-98	
PORTABLE TOLLET		1	- 36	37	8-Sep-98	=
RADIOS		3	102	105	8-Sep-98	
ORGANIC VAPOR MOI	NITOR	1	34	35	8-Sep-98	
BOXTRUCK		1	34	35	8-Sep-98	
MINI EXCAVATOR		1	30	31	14-Sep-98	
RENTAL MINI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	DR .		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	<		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	24	25	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	8	9	12-Oct-98	
RENTAL PUMP		1	5	6		
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WES	QUALITY CONTROL REPORT		REPORT DATE
		Thursday	22-Oct-88
	LOCATION AND DESCRIPTION OF DEFICIENCIES		
<u> </u>	(Materials, Equipment, Safety, and/or Workmanship)		
			•
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CHANGE IN	CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
	T		
MENTEM.	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
		<u> </u>	
	· · · · · · · · · · · · · · · · · · ·		
		1	
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT I	NFORMATION)	
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4.		-	
———— Attachm	tonfor M/DC Tallanto Cofety Marting	<u></u>	
Augunn	Pents: WRS Tailgate Safety Meeting WRS Quality Control Report		
	1 South		_
	Joe Anderson/Richard Scott		
		INTERNATIONAL, LLC	
_	THE TIME TO BE THE TOTAL SERVICES, 180.	IT I BRITALIONAL, LLC	

WTS			DAILY PI	RODU	CHON	KEPORT		Friday	REPORT DATE
ELVE	DER NO.		TITLE AND LOCATION	· <u> </u>	Sol-Lynn Si	te_	F	REPORT NO.	
VRS JOB NO.	4412-98-4029	90		Housto	n, Texas			37	
LIENT NAME	·				PROJECT MANAG	ROJECT MANAGER			
[exas Na	tural Resource Conserv	ation Com	mission		<u> </u>	Joe Anderso	n/Richard Sc	ott	
VEATHER-AM	Cloudy				TEMPERATURE-A	м	_60's		
MEATHER PM	Sunny				TEMPERATURE-P	M	80's		
	WESTINGHOUSE / SUBCONTRACTO	OR WORKFORCE		LOCATION AND DESCRIPTION OF WORK PERFORMED					
UMBER	TRADE	HOURS	EMPLOY	ŒR	WRS arriv	ed onsite @	6:45 am cor	nducted saf	ety &
1	Project Manager	8	WRS		1	n meeting.			
		<del> </del> -					pumping wa		
	HS/QC Officer	8	WRS		1		vated trench		<u>phone</u>
1	Operator	12	WRS				ed pipe 105'. vey crew on		of 610
1	Contract Labor	22	Greenfield				Vey crew on V-30 and DS-		01 610.
			<del></del> "				xer and chor		
	Operator	. 12	WRS		· ·	<del></del>		<del></del> ,	****
	Operator	12	VVICO	<u>.                                    </u>	<u>Site was c</u> <u>left.</u>	losed for th	e day and all	WRS empl	oyees
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·	<del> </del>					PER	DIEM TOTA	ILS	
		ļ				(in	cluding weekend:	S)	
	<u> </u>		_		1	USED TODAY		3	1
					]	PREVIOUS REPOR	π	85	
					]	START OF PROJEC	л	88	
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY N	EETING HE	LO THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?
SITE THIS DAT		62	1						
CUMULATIVE 1	TOTAL OF WORK		[]YES	рхэмс	•		[]YES	DXJ NO	į
HOURS FROM	PREVIOUS REPORT	1374.5							i
TOTAL WORK	HOURS FROM		IF "YES", ATTACH COF	Y OF MEET	NG RECORD		IF "YES", ATTACH C	OMPLETED OSHAI	FORM .
START OF PRO	DURCT	1436.5	1101	IS REPORT			101	THIS REPORT	
		PROJECT SA							
	DESCRIPTION	SOIL	WPE	CONCRET	WATER	OTHER		COMMENTS	
SAM	LECTED THIS DATE:	<b></b>	<b>.</b>		<u> </u>				
PREVIOUS CU	MULATIVE TOTAL:	ļ	<u> </u>						
TOTAL SAMPL	ES COLLECTED:	<u> </u>	<u> </u>			<u></u> .	L	····	

WAS							
	<del> </del>	(Please write in categories n				Friday	23-Oct-88
•	UNIT OF	QUANTITY		vi <b>o</b> tis	O	URRENT PROJE	<b>ਾ</b>
DESCRIPTION	MEASURE	THIS DATE		TIVE TOTAL		TOTAL	
RENCH EXCAVATED	FEET	· .	1728			1,728	
RENCH BACKFILLED	FEET		1139			1,139	
IDPE PIPE REMOVED	FEET	105	964			1,069	
/AULTS REMOVED	EACH		17			17	
MELLS INSTALLED	EACH		13			13	
IDPA PIPE INSTALLED	FEET		1017		· · · · · · · · · · · · · · · · · · ·	_1,017	
/AULTS INSTALLED	EACH		5			5	
ELECTRICAL CONDUIT	FEET		490		_	490	
MELL CUTTINGS	DRUM		86			86	
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<u></u>				<u> </u>			· <u></u> -
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	Em person
PROJECT MAT	FRIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	EST. REMOVA
			·	(2.10)	(64.10)	N/A	Ì
PPE	· ·=				<u> </u>		N/A
VISQUEEN	<del></del>		<del></del>	90	66	N/A	N/A
DRUMS			<u> </u>	86	86	N/A	N/A
BARRICADE TAPE					400	N/A	N/A
2" HDPE PIPE	<del></del>			880	880	N/A	N/A
PRE-CAST VAULTS				5	5	N/A	N/A
EMBEDMENT SAND				12	12	N/A	N/A
1" HOPE PIPE	<del></del>	<u> </u>		454	454	N/A	N/A
3" HDPE PIPE			·			N/A	N/A
		Crushed Rock		1	11	N/A	N/A
	<u>.</u>			<u> </u>		N/A	N/A

	PROJEÇT QUA	NTITY S	UMMAR'	Y		REPORT DATE
		(continued)	<del></del>		Friday	23-Oct-88
SPEC G NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE I		INJOB		COMMENTS	
	Refer to daily cost summary sheets attache	d.		*** *		
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		·				
PR	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
	·	(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK		1	38	39	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	37	38	8-Sep-98	
PORTABLE TOILET		1	37	38	8-Sep-98	
RADIOS		3	105	108	8-Sep-98	
ORGANIC VAPOR MONI	TOR	11	35	36	8-Sep-98	
BOXTRUCK		_ 1	35	36	8-Sep-96	
MINI EXCAVATOR		1	31	32	14-Sep-98	-
RENT INI EXCAVAT	OR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSOR			3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	·		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	25	26	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	i 12-Oct-98
COMPACTOR		1	. в	10	12-Oct-98	
RENTAL PUMP		1	6	7		
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WTS		QUALITY CONTROL	REPORT		REPORT DATE
			<del>-</del>	Friday	23-Oct-88
		LOCATION AND DESCRIPTION OF	DEFICIENCIES		
		(Materials, Equipment, Safety, and/or We	orkmenship)		
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HANGE IN CON	NTRACT: CHANGE OF	RDER EXTRA WORK	OTHER		
				- <del></del>	
ID ITEM	DESCRIP	TION OF CHANGE		QUANTITY CHANGE	NEW TOTAL
	· · · · · · · · · · · · · · · · · · ·				
		<u> </u>			-
•					
EMARKS: (NCL	UDE DIRECTIONS FROM CLIENT, VISITORS, COM	PLIANCE NOTICES, SAFETY INSPECTIONS, AND	OTHER PERTINENT INFO	RMATION)	. <u></u>
Attachments					
	WRS Quality Control Report				
س.	Plate		<i>.</i> .		4
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Joe Anderson/Richard So	cott			
Y WES	STINGHOUSE REMEDIATION SERVICE		RADIAN IN	TERNATIONAL, LLC	

			DAILY PRO	DUCTION I	REPORT		Saturday	REPORT DATE	
XELVERY ORD			TITLE AND LOCATION	Sol-Lynn Si	te		REPORT NO.	24-Oct-68	
		00		•			38	ł	
AVRS JOB NO.	4412-98-402	90		ouston, Texas		<del></del>	30	<del></del>	
	itural Resource Conserv	vation Comi	mission	PROJECT MARGING		on/Richard So	cott	J	
MEATHER AM	0			TEMPERATURS-A					
MEATHER PM		<del></del>		TEMPERATURE P	001				
	WESTINGHOUSE / SUBCONTRACT	OR WORKFORCE			LOCAT	TION AND DESCRIP WORK PERFORM			
YLMBER	TRADE	HOURS	EMPLOYER	WRS arriv	ed onsite @	6:45 am coi	nducted safe	ety &	
1	Project Manager	8	WRS		n meeting.	<del></del>	·		
	HS/QC Officer	8	WRS			ss the back ound on the			
1	Operator	12	WRS			lers to drill (			
1	Contract Labor	17	Greenfield	" <del></del>	losed for the	<u>e day and al</u>	I WRS empl	oyees_	
				left.					
1	Operator	12	WRS					ł	
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					PER	DIEM TOTA	ALS		
		·			(in	cluding weekend	s)	:	
		<u> </u>			USED TODAY		3	1	
		<u> </u>			PREVIOUS REPOR	π	88		
		ļ			START OF PROJEC	স	91	,	
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY MEET	ING HELD THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?	
SITE THIS DAT		57	Ĭ						
	TOTAL OF WORK PREVIOUS REPORT	1436.5	[]YES	рујно	•	[ ]YES	рд но		
TOTAL WORK	HOURS FROM		IF "YES", ATTACH COPY O	F MEETING RECORD		IF "YES", ATTACH C	XOMPLETED OSHA I	=ORM	
START OF PRO	OUECT	1493.5	TO THIS R	EPORT		то	THIS REPORT		
·		<del></del>	PROJECT SAME		. د .	<b></b>			
	DESCRIPTION	SOIL	WIPE CON	CRETE WATER	OTHER		COMMENTS		
swatto	LLECTED THIS DATE:	<u> </u>	<del> </del>				<del></del>		
PREVIOUS CU	MULATIVE TOTAL:	<del> </del>	<del>  -</del>	<del></del>		ļ	<del></del>		
TOTAL BAMPL	ES COLLECTED:		<u> </u>		<u> </u>	<u> </u>			

		(Please write in categories n	specified)			Saturday	24-Oct-88
	UNIT OF	QUANTITY	PRE	viotūs	α	JRRENT PROJE	ा 🖣
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
RENCH EXCAVATED	FEET		1728			1,728	
RENCH BACKFILLED	FEET		1139			1,139	
IDPE PIPE REMOVED	FEET		1,069		1,069		_ <del></del>
AULTS REMOVED	EACH		17	•			<u>.</u>
VELLS INSTALLED	EACH		13			13	•
IDPA PIPE INSTALLED	FEET	225	1017			1,242	
/AULTS INSTALLED	EACH	<u></u>	5		-	5	<del></del>
LECTRICAL CONDUIT	FEET	850	490			1,340	
VELL CUTTINGS	DRUM	10	86		-	96	<u>.                                    </u>
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						<u> </u>	
		····					
	<del></del> !		USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATER	IAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
VISQUEEN						N/A	N/A
DRUMS				86	. 86	N/A	N/A
BARRICADE TAPE	<del></del>			` 400	400	N/A	N/A
2" HOPE PIPE	<del></del>		225	880	1105	N/A	N/A
PRE-CAST VAULTS				5	5	N/A	N/A
EMBEDMENT SAND			-	12	12	N/A	N/A
1° HDPE PIPE				454	454	N/A	N/A
3" HDPE PIPE					- 17	N/A	N/A
		Crushed Rock		1	1	N/A	N/A
<u> </u>	1 1 1 1 1 1 1 1 -				<u>-</u> -	N/A	N/A

(VTS)	PROJECT QUA		UMMAR			REPORT DATE
<u> </u>		(continued)			Saturday	24-Oct-88
SPEC & NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE II		INJOB	-	COMMENTS	
<del></del>	Refer to daily cost summary sheets attache	a.	ļ			
<del></del>			}			
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		ı	,			
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK		1	39	40	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	38	39	8-Sep-98	
PORTABLE TOILET		1	38	39	8-Sep-98	
RADIOS		3	108	111	8-Sep-98	
ORGANIC VAPOR MO	NITOR	1	36	37	8-Sep-98	
BOXTRUCK		1	36	37	8-Sep-98	
MINI EXCAVATOR		1	32	33	14-Sep-98	·
RENT INI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	DR .		3	3	21-Sep-98	24-Sep-96
RENTAL DUMP TRUC	K		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE	·	1	. 26	27	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	10	11	12-Oct-98	
RENTAL PUMP	•	1	7	8	•	
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(IVTS)		QUA	LITY CONTROL F	REPORT		REPORT DATE
	<del></del>				Saturday	24-Oct-88
		LOCATIO	ON AND DESCRIPTION OF DE	FICIENCIES		
		. (Ma	terials, Equipment, Sefety, and/or Workn	nenship)		·
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						<del></del>
HANGE IN	CONTRACT	☐ CHANGE ORDER	EXTRA WORK	OTHER		
			<u> </u>			
OTEM _		DESCRIPTION OF CH	KANGE		QUANTITY CHANGE	NEW TOTAL
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						<u> </u>
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<del></del> :	<u> </u>			<u></u>	<u> </u>	
REMARKS:	(INCLUDE DIREC	CTIONS FROM CLIENT, VISITORS, COMPLIANCE NOT	ICES, SAFETY INSPECTIONS, AND OTI	ER PERTINENT INI	FORMATION)	
				•		
		·				
Attachm	ents:	WRS Tailgate Safety Meeting		_		
Attacimi		WRS Quality Control Report		•		
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		Tiester				
(AZS)	J	oe Anderson/Richard Scott				
	WESTINGHO	DUSE REMEDIATION SERVICES, INC.		RADIAN II	NTERNATIONAL, LLC	

IVTES .			DAILY P	RODU	CTION I	REPORT			REPORT DATE
<b>4</b>			<del></del>	_		<u></u>		Sunday	25-Oct-88
XELVER	DER NO.	:	TITLE AND LOCATION		Sol-Lynn Si	te	. 1	REPORT NO.	,
VRS JOB NO.	4412-98-402	90		Housto	n, Texas			39	<u> </u>
JUENT NAME	<del></del>			-	PROJECT MANAG				
Fexas Na	tural Resource Consen	vation Comi	mission			Joe Anderson/Richard Scott			
WEATHER-AM	Sunny				TEMPERATURE-A	<u> </u>	60's		
MEATHER PM	Sunny				TEMPERATURE-P		80's		
	WESTINGHOUSE / SUBCONTRACT	OR WORKFORCE					TION AND DESCRIE WORK PERFORMI		
NUMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite @	6:30 am cor	nducted safe	ety &
1	Project Manager	8	WRS	<u> </u>		n meeting.			
1	HS/QC Officer	8	WRS				onnect SZE- ed to the vau		
1	Operator	12	WRS				s. WRS sat		
1	Contract Labor	12	Greenfield				n. SZE-7 wa		
<u>_</u>		<del> </del>			Include ring and cover place and concrete poured.  Traffic Control was used on the feeder road to move				
	<del></del>	<del> </del>							o move
1	Operator	12	WRS				<u>tiing soil, sa</u> e day and al		0,,000
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<del> </del>		<del>                                     </del>						91	j
<u>_</u> _		<del>- </del> -	<del> </del>	<u> </u>		PREVIOUS REPOR			· · · · · · · · · · · · · · · · · · ·
	L.	<del> </del>				START OF PROJEC	ਸ 	94	
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY!	MEETING HE	D THIS DATE?		WERE THERE ANY	LOST TIME ACCEDE	ENTS THIS DATE?
SITE THIS DAT		52	{				<u>.</u>		ł
	TOTAL OF WORK PREVIOUS REPORT	1493.5	[]YES	[X] NO			[]YES	DZJ MO	
	HOURS FROM		IF "YES", ATTACH CO	PY OF MEET	NG RECORD		IF "YES". ATTACH C	COMPLETED OSHA I	FORM
START OF PR		1545.5	Ĭ	HIS REPORT	· — • • • •			THIS REPORT	
	<del> </del>		PROJECT SA		.0G	_	<del></del>	<del></del>	
	DESCRIPTION	SOIL	WPE	CONCRETE		OTHER		COMMENTS	
SAME	LLECTED THIS DATE:								
PREVIOUS CL	MULATIVE TOTAL:								
TOTAL SAMPL	ES COLLECTED:								

WTS	PROJECT QUA	NTITY S	UMMAR	Y		REPORT DATE
		(continued)			Sunday	25-Oct-88
SPEC / DWG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE I		JOB NI NI NI NI NI NI NI NI NI NI NI NI NI		COMMENTS	
	Refer to daily cost summary sheets attache	d.				
<u></u>						
P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL,	REMOVAL
	·	(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK		1	40	41	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	39	40	8-Sep-98	
PORTABLE TOILET	•	1	39	40	8-Sep-98	
RADIOS		3	111	. 114	8-Sep-98	
ORGANIC VAPOR MON	IITOR	1	37	38	8-Sep-98	
BOXTRUCK		1	37	38	8-Sep-98	
MINI EXCAVATOR		1	33	34	14-Sep-98	
RENTAL MINI EXCAVAT	for		6	6	21-Sep-98	28-Sep-9
RENTAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	. 27	28	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct- <del>9</del> 8	12-Oct-98
COMPACTOR		1	11	12	12-Oct-98	
RENTAL PUMP		1	8	9		
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		QUA	LITY CONTROL	REPORT		REPORT DATE
					Sunday	25-Oct-88
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			aterials, Equipment, Safety, and/or Wk	orkmenship)	·	
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	CONTRACT.					
CHANGE IN (	CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER	<u> </u>	
SIDITEM		DESCRIPTION OF C	HANCE	•	QUANTITY CHANGE	NEW TOTAL
DIDITOR.		become from or o	Wic		WOMEN TO PARTY	MEALLOINE
	•	<u> </u>				
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REMARKS: (I	NOLUDE DIRECTIONS FROM	CLIENT, VISITORS, COMPLIANCE NO	MICES, SAFETY INSPECTIONS, AND	OTHER PERTINENT IN	FORWATION)	
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Attachme		ate Safety Meeting ity Control Report				
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	PSIT	<b>5</b>				
	Ing Ander	rson/Richard Scott		<u></u>		<u>.</u>
<b>(2)</b> ,		EDIATION SERVICES, INC.		RADIAN II	NTERNATIONAL, LLC	

WTS		<u>-</u>	DAILY PR	ODUCTION I	REPORT	·		REPORT DATE
			TITLE AND LOCATION	Sol-Lynn Si	te		Monday REPORT NO.	26-Oct-68
ELVERY CRE				•		•		
VRS JOB NO.	4412-98-4029	90	<u> </u>	Houston, Texas	l		<u> 40</u>	
LENT NAME	atural Resource Conserv	ration Comi	miceion	PROJECT MANAG		on/Richard So	off	`
exas iva		allon Comi	11(55(0))	<del></del>	<del></del>	60's		
VEATHER-AM		···	<del></del>	TEMPERATURE-A				
VEATHER PM		<u> </u>		TEMPERATURE-P	<del></del>	80's	771044	
	WESTINGHOUSE / SUBCONTRACTO	OR WORKFORCE				WORK PERFORMS		
UMBER	TRADE	HOURS	EMPLOYE	RWRS arriv	ed onsite 🚳	6:30 am cor	nducted safe	ety &
1	Project Manager	8	WRS	production				
1	HS/QC Officer	8	WRS			conduit to co		
1	Operator	11	WRS	to include	ring and co	ver place an	d concrete	poured.
1	Contract Labor	22 .	Greenfield	<u> </u>		ed for the di	rillers to dev	<u>relop</u>
_			· · · · · · · · · · · · · · · · · · ·	II.————	N 28, MW 29			
		-				around the	<u>vauits in the</u>	e field so
1	Operator	11	WRS	II———		d tomorrow. e day and all	MDS ampl	
	ł			left.	ioseu ioi ur	e day and an	AAKO eilibi	<u>ovees</u>
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<u></u> -	<u> </u>	<del> </del>			PER	DIEM TOTA	NLS	1
					(in	cluding weekend	s)	
			,		USED TODAY		3	[
					PREVIOUS REPOR	σ	94	
					START OF PROJEC	ा ।	97	[
TOTAL WORK	HOURS ON JOB	1	WAS A JOB SAFETY ME	ETING HELD THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?
STE THIS DAT	re	60	ł			•		1
CLANULATIVE	TOTAL OF WORK		[]YES	рајно		[]YE8	DZ] NO	
HOURS FROM	PREVIOUS REPORT	1545.5			•			1
	HOURS FROM	1605 5	IF "YES", ATTACH COPY			IF YES", ATTACH C		FORM
START OF PR	OJECT	1605.5	тотня	REPORT		TO	THIS REPORT	
			PROJECT SAM		<i></i>	<del>,</del>		
	DESCRIPTION	SOIL	WPE C	ONCRETE WATER	OTHER_		COMMENTS	
	LLECTED THIS DATE:	1	<del>                                     </del>	<del></del>		<u> </u>	<del>_</del>	
REVIOUS CL	MALLATIVE TOTAL:	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del></del>		<del></del> _
TOTAL SAMP	TES CONTECLED:		<u> </u>		<u> </u>	<u> </u>		

DESCRIPTION ME  FRENCH EXCAVATED F  FRENCH BACKFILLED F  HDPE PIPE REMOVED F  VAULT'S REMOVED E  WELLS INSTALLED E  HDPA PIPE INSTALLED F  VAULT'S INSTALLED E  ELECTRICAL CONDUIT F	ASURE EET EET EACH EACH EET ACH EET ACH EET	QUANTITY THIS DATE			α.	1,728 1,139 1,069 1,317		
FRENCH EXCAVATED  FRENCH BACKFILLED  FAULTS REMOVED  FAULTS REMOVED  FELLS INSTALLED  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FOUN	EET EET ACH EET ACH EET ACH EET		1728 1139 1,069 17 13 1317 1			1,728 1,139 1,069 17 13		
TRENCH BACKFILLED  HDPE PIPE REMOVED  F  VAULTS REMOVED  WELLS INSTALLED  HDPA PIPE INSTALLED  ELECTRICAL CONDUIT  WELL CUTTINGS  D	EET ACH EET CACH EET CACH CACH CACH CACH CACH CACH CACH CAC	1	1139 1,069 17 13 1317 1 1390			1,139 1,069 17 13 1,317		
HDPE PIPE REMOVED  VAULTS REMOVED  WELLS INSTALLED  HDPA PIPE INSTALLED  F  VAULTS INSTALLED  ELECTRICAL CONDUIT  WELL CUTTINGS  D	EET EACH EET EACH EET EACH EET	1	1,069 17 13 1317 1 1390			1,069 17 13 1,317		
VAULTS REMOVED  WELLS INSTALLED  HDPA PIPE INSTALLED  F VAULTS INSTALLED  ELECTRICAL CONDUIT  WELL CUTTINGS  D	ACH EET ACH EET	1	17 13 1317 1 1			17 13 1,317		
WELLS INSTALLED  HDPA PIPE INSTALLED  VAULTS INSTALLED  ELECTRICAL CONDUIT  WELL CUTTINGS  D	EET EET EET EET EET EET EET EET EET EET	1	13 1317 1 1			13		
HDPA RIPE INSTALLED  VAULTS INSTALLED  ELECTRICAL CONDUIT  WELL CUTTINGS  D	EET EET EET EET ERUM	1	1317 1 1390			1,317		
VAULTS INSTALLED ELECTRICAL CONDUIT F WELL CUTTINGS D	EET PRUM	1	1390					
ELECTRICAL CONDUIT F WELL CUTTINGS D	RUM	1	1390			•		
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			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL	
PROJECT MATERIAL LIS	T		(EACH)	(DAYS)	(DAYS)	SITE	DATE	
PPE						N/A	N/A	
MSQUEEN						N/A	N/A	
DRUMS				86	86	N/A	N/A	
BARRICADE TAPE	<del>-</del>		<u> </u>	` 400	400	N/A	N/A	
2' HDPE PIPE	<del></del>			115	115	N/A	N/A	
PRE-CAST VAULTS	<del></del>		1	1	2	N/A	N/A	
EMBEDMENT SAND	<del></del>	,	2	- 12	14	N/A	N/A	
1" HOPE PIPE	<del></del>			:454	454	N/A	N/A	
3" HOPE PIPE	<del></del>					N/A	N/A	
	-	Crushed Rock	1	1	2			
			<del></del>			N/A	N/A	

(Marie )	PROJECT QUA	T QUANTITY SUMMARY				
	<u> </u>	(continued)	·		Monday	28-Oct-88
SPEC / DWG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		SOL NI C		COMMENTS	
	Refer to daily cost summary sheets attache	ed.			<u></u>	
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		T				
	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	41	42	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	40	41	8-Sep-98	
PORTABLE TOILET		1	40	41	8-Sep-98	
RADIOS		3	114	117	8-Sep-98	
ORGANIC VAPOR MO	NITOR	1	38	39	8-Sep-98	
BOXTRUCK		1	38	39	8-Sep-98	
MINI EXCAVATOR		1	34	36	14-Sep-98	
RENT MINI EXCAVA	ATOR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	ЭК	<u> </u>	3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUC	K		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE.		1	28	29	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	12	13	12-Oct-98	
RENTAL PUMP		11	9	10		
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WRS		QUA	LITY CONTROI	REPORT		REPORT DATE
	<u> </u>	· · · · · · · · · · · · · · · · · · ·			Monday	28-Oct-88
		LOCATI	ON AND DESCRIPTION OF	DEFICIENCIES		
	<del></del>	(M	laterials, Equipment, Safety, and/or V	Vorkmanship)		<del></del>
						-
		•				2
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				<u> </u>		<u> </u>
CHANGE IN	N CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER		_
						_
BIDITEM		DESCRIPTION OF C	HANGE		QUANTITY CHANGE	NEW TOTAL
		1				
	•	<del></del>				
			<del></del>			
REMARKS:	(INCLUDE DIRECTIONS FRO	OM CLIENT, VISITORS, COMPLIANCE NO	TICES, SAFETY INSPECTIONS, AN	OTHER PERTINENT IN	ORMATION)	
						•
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844						
Attachm		Igate Safety Meeting ality Control Report				
	32.12	• · · · · · · · · · · · · · · · · ·				
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	Sla	<u>//</u>				
	Joe And	erson/Richard Scott			····-	
	WESTINGHOUSE RE	MEDIATION SERVICES, INC.		RADIAN IN	ITERNATIONAL, LLC	

		· · · · · · · · · · · · · · · · · · ·	DAILY P	RODU	CTION	REPORT			BEDOOR DA	
								Tuesday	REPORT DATE  27-Oct-88	
ELIVERY OR	DER NO.		TITLE AND LOCATION	•	Sol-Lynn S	ite		REPORT NO.		
VRS JOB NO.	4412-98-40	290		Housto	n, Texas			41		
LIENT NAME					PROJECT MANAG					
exas Na	tural Resource Conser	vation Com	mission			Joe Anderso	on/Richard So	cott		
WEATHER-AM					TEMPERATURE-		60's			
WEATHER-PM	<del></del>				TEMPERATURE 4		80's			
	WESTINGHOUSE / SUBCONTRAC	TOR WORKFORCE					TION AND DESCRI WORK PERFORM			
UMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite @	6:30 am co	nducted safe	ety &	
1	Project Manager	8	WRS		-	n meeting.				
1	HS/QC Officer	8	WRS					to connect \$	SZE-1	
1	Operator	11	WRS		vault, set the vault and backfilled.  Traffic Control was used for the drillers to pour					
1	Contract Labor	22	Greenfield		concrete p	ads on MW	28, MW 29 a	and DS 3 and	DS-4.	
<del></del>		<del></del>	Ol dol mold				DS <u>-4, SZE-6</u>		il il	
	<u> </u>							8. The HDI	PE pipe	
1	Operator	11	WRS			ected into 7		ansported a	nd	
								tions tests v		
					performed					
<u>-</u>						losed for th	<u>e day and al</u>	I WRS empl	<u>oyees</u>	
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·_·		<del></del>	<u> </u>			PER	DIEM TOTA	ALS		
		· · · · · ·					cluding weekend	· ·		
<del> </del>		<del>-  </del>					ording noctors	3		
<del> ,</del>		<del>                                     </del>				USED TODAY		97	- (	
		<del>- </del>		· · · · · · · · · · · · · · · · · · ·		PREVIOUS REPOR		100		
	HOURS ON 1972	<del></del>				START OF PROJEC			AFFO TI 100 ft - 200	
COTAL WORK RITE THIS DAT	HOURS ON JOB TE	. 60	WAS A JOB SAFETY I	MEETING HEL	U IMIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	THIS DATE?	
	TOTAL OF WORK		[]YES	рхјио			[]YES	рд но		
IOURS FROM	PREVIOUS REPORT	1605.5				`		,		
OTAL WORK	HOURS FROM		IF "YES", ATTACH COI	PY OF MEETIN	IG RECORD		IF "YES", ATTACH (	COMPLETED OSHA F	FORM	
TART OF PR	WECT	1665.5	тот	IS REPORT			то	THIS REPORT	<u></u> -	
			PROJECT SA	MPLE L	.OG	<u></u>				
	DESCRIPTION	SOIL	WPE	CONCRETE	WATER	OTHER		COMMENTS		
MPL	LECTED THIS DATE:					·				
REVIOUS CL	MULATIVE TOTAL:									
OTAL SAMPL	ES COLLECTED:									

		(Please write in categories n	o specified)		·	Tuesday	27-Oct-88
	UNIT OF	QUANTITY	PRE	woos	a	URRENT PROJE	СТ
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
FRENCH EXCAVATED	FEET		1728			1,728	
FRENCH BACKFILLED	FEET		1139			1,139	
HOPE PIPE REMOVED	FEET		1,069			1,069	
VAULTS REMOVED	EACH		17		17		
WELLS INSTALLED	EACH		13			13	
HDPA PIPE INSTALLED	FEET	<b>68</b> _	1317	·		1,405	
VAULTS INSTALLED	EACH	7 _	2		9		
ELECTRICAL CONDUT	FEET		1390		1,390		
WELL CUTTINGS	DRUM		96			96	
						· ·	
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			<u> </u>		<u> </u>		
	<u></u>		<u> </u>	<u> </u>		<u> </u>	<u> </u>
PROJECT MATERIAL	LIOT			PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERIAL	LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
'PPE	<del></del>		<u> </u>			N/A	N/A
VISQUEEN					•	N/A	N/A
DRUMS				86	86	N/A	N/A
BARRICADE TAPE			<b></b>	- 400	400	N/A	N/A
2" HDPE PIPE	<del>-</del>	·		1155	1155	N/A	N/A
PRE-CAST VAULTS	_		7	1	8	N/A	N/A
EMBEDMENT SAND				- 14	14	N/A	N/A
1" HDPE PIPE			<u> </u>	850	850	N/A	N/A
3" HDPE PIPE				40	40	N/A	N/A
	<del></del>	Crushed Rock		3	3	N/A	N/A
				<u> </u>		N/A	N/A

	PROJECT QUA	NTITY S	UMMAR	Y		REPORT DATE
		(continued)		····	Tuesday	27-Oct-98
SPEC / SV/G NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE I		IN JOB		COMMENTS	
<u></u>	Refer to daily cost summary sheets attache	d.				
					<del></del>	
			,	<u> </u>		
					<del></del>	
		<del></del>				
P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
<u></u>		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK		1	42	43	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER	·	1	41	42	8-Sep-98	
PORTABLE TOILET		1	41	42	8-Sep-96	·
RADIOS		3	117	120	8-Sep-98	
ORGANIC VAPOR MON	NITOR	1	39	40	8-Sep-98	
BOXTRUCK		1	39	40	8-Sep-98	
MINI EXCAVATOR		1	35	36	14-Sep-98	
RENT TINI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	(		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	· 29	30	23-Sep-98	
RENTAL MINI HOE			5	5	6-0ct-98	12-Oct-98
COMPACTOR		1	13	14	12-Oct-98	
RENTAL PUMP		1	10	11		
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WRS		QÜA	LITY CONTRO	REPORT		REPORT DATE
				<u></u>	Tuesday	27-Oct-8
		LOCATI	ON AND DESCRIPTION OF	DEFICIENCIES		
	~		fatorials, Equipment, Safety, and/or V			
	is completed. The For field notes test Test 7 117.49 Test 8 110.49 Test 9 136.69	g was conducted. Heard & keep proctor for this project is: to results are approximately: to cell phone back parking are for Inside compound on west story to David Street to David December of the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the duel compound on the due	87 PCF/28% moisture ea under asphalt side of shed			esults after a
HANGE IN	CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER		
ID ITEM		DESCRIPTION OF C	HANGE		QUANTITY CHANGE	NEW TOTAL
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			<del></del>			
			<u></u>			<del></del>
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EMARKS:	(INCLUDE DIRECTIONS FR	OM CLIENT, VISITORS, COMPLIANCE NO	OTICES, SAFETY INSPECTIONS, AND	D OTHER PERTINENT IN	FORMATION)	
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\ttachme		nilgate Safety Meeting uality Control Report		`,		
نست ا		at the				
(IRS)	Joe And	derson/Richard Scott				
$egin{array}{c} egin{array}{c} \egin{array}{c} WESTINGHOUSE RI	EMEDIATION SERVICES, INC.		RADIAN I	NTERNATIONAL, LLC		

### WRS INFRASTRUCTURE ENVIRONMENT, INC.

ydrostatic T	est Log	
TITLE AND LOCATION	- Autor	Date:
Sol Lynn/Industrial	Transformer	Oct. 27, 1998
	PROJECT MANAGER	
Commission	Joe Anderson/Ric	
	TEMPERATURE	80's
	<u>L</u>	
PIPE INFORMATION		· · · · · · · · · · · · · · · · · · ·
] PVC [	STEEL	□ ОТНЕЯ
] 3" . [	<b>] 4"</b>	6" ☐ OTHER
<del></del>	-	· -
(PSI)	Pine Length	approx. 230' <i>(LNF)</i>
<u> [F3]</u>	r spe Lengus	approx. 200 (LIAT)
Pressure (gauge rea	nding)	Comments
	(psi)	
	(psi)	<del></del>
	(psi)	
	(psi)	
	(psi)	
	(psi)	•
	(psi)	
10 minutes test	Pressure Deficie	ncies: None
ired		
Test com	pleted no problems	S
Test com	pleted no problems	S
	TITLE AND LOCATION Sol Lynn/Industrial Commission  PIPE INFORMATION PVC 3"  Maximum Duel Containment(2)	Sol Lynn/Industrial Transformer    PROJECT MANAGER   Joe Anderson/Rich     TEMPERATURE     PIPE INFORMATION     PVC

Signature: WRS QA/QC

Signature: Radian Representative

		(Please write in categories n	o specified)			Wednesday	27-Oct-88
	UNIT OF	QUANTITY		vi <b>oti</b> s	С	URRENT PROJE	
DESCRIPTION	MEASURE	THIS DATE		TIVE TOTAL		TOTAL	~
RENCH EXCAVATED	FEET		1728			1,728	
RENCH BACKFILLED	FEET		1139			1,139	
IDPE PIPE REMOVED	FEET		1,069			1,069	
AULTS REMOVED	EACH		17			17	
VELLS INSTALLED	EACH		13			13	
IDPA PIPE INSTALLED	FEET	194	1211			1,405	
'AULTS INSTALLED	EACH	2	9			11	
LECTRICAL CONDUIT	FEET		1390		-	1,390	
VELL CUTTINGS	DRUM	,	96			96	
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	<del>-  </del>					····	
							<u> </u>
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	
PROJECT MAT	FRIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	EST, REMOVAL DATE
	ENAL COT		(DOI)	(LATS)	(LX13)	<u> </u>	
PE			<del></del>		<u> </u>	N/A	N/A
ASQUEEN				86	90	N/A	N/A N/A
ORUMS TABLE			<u> </u>	86	86	N/A	N/A
3ARRICADE TAPE					400	N/A	N/A
Z' HOPE PIPE	<u></u>			1155	1155	N/A	N/A
PRE-CAST VAULTS	·	· · · · · · · · · · · · · · · · · · ·	2	19	21	N/A	N/A
EMBEDMENT SAND		· <del></del> -			14	N/A	N/A
1" HDPE PIPE			_	850	850	N/A	N/A
3" HDPE PIPE		<u> </u>	210	40	250	N/A-	N/A
	<u> </u>	Crushed Rock		3	3	N/A	N/A
	·		]	j		N/A	N/A

(PRS)			DAILY PF	RODU	CTION I	REPORT	·	Modnooday	REPORT DATE
DELIVENCE	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	te-	ı	REPORT NO.	[
ARS JOB NO.	4412-98-40	290		Houstor	n, Texas			42	1
SMAN THEBLIC				PR		PROJECT MANAGER			
Texas Na	atural Resource Conse	rvation Com	mission			Joe Anderso	n/Richard So	xott	
WEATHER-AM	Sunny			-	TEMPERATURE.	м	60's	_	
WEATHER	s Sunny		<del></del>	].	TEMPERATURE-P	M	80's		
	WESTINGHOUSE / SUSCONTRAC	CTOR WORKFORCE	:		LOCATION AND DESCRIPTION OF WORK PERFORMED				
NUMBER	TRADE	HOURS	EMPLOY	ER	WRS arriv	ed onsite @	6:30 am cor	nducted saf	ety &
1	Project Manager	8	WRS			n meeting.			
	HS/QC Officer	8	WRS				cal conduit		
1	Operator	11	WRS				ench was ba		
1	Contract Labor	22	Greenfield				ed for the d		
<u>.</u>	CONSTRUCT CARDON	<del></del>	Greenine				for the surv		
<del></del> -							& 8 and cut	the well ca	sing to
1	Operator	11	WRS			t elevation.			
					Site was closed for the day and all WRS employees left.				
								•	
							one wipe s		
		1			from the drums containing well cutting and the wing sample was collected from the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line piping when the main line pipi				
		1			was remov	ved fron the	treatment fa	cility north	side. All
					samples v	were sent to SPL lab to be analyized for TCE.			
	<u> </u>								
	· ·		<u> </u>						
	<u> </u>	_	<u> </u>						
					,	PER	DIEM TOTA	ALS	
					1	(in	cluding weekend	s)	
	<u> </u>					USED TODAY		3	
	<u> </u>					PREVIOUS REPOR	σ	100	
						START OF PROJEC	ম	103	
TOTAL WORK	(HOURS ON JOB	1	WAS A JOB SAFETY M	EETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCID	ENTS THIS DATE?
SITE THIS DAT	TE	60	}						1
i	TOTAL OF WORK I PREVIOUS REPORT	1665.5	[]YES	£x1 NO			[]YES	рд но	
TOTAL WORK HOURS FROM		_	OF YES", ATTACH COP	Y OF MEETIN	IG RECORD		IF "YES", ATTACH O	OMPLETED OSHA	FORM
START OF PROJECT 1725.5		тоты	IS REPORT			то	THIS REPORT		
			PROJECT SA	MPLE L	.OG				
	DESCRIPTION	SOIL	WIPE C	XXXCRETE	WATER	OTHER		COMMENTS	
3446	ILLECTED THIS DATE:		<u> </u>			<del> </del>			
PREVIOUS CL	ARULATIVE TOTAL:		<del> </del>						
TOTAL SAMP	LES COLLECTED:					<u></u>			

	PROJECT QUA	Y	Wednesday	REPORT DATE		
	T	(continued)				
SPEC / DVVG NO.	Refer to daily cost summary sheets attache	·····	BOL NI C		COMMENTS -	
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	PROJECT EQUIPMENT LIST		PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREWTRUCK		1 1	43	44	21-Sep-98	
RENTAL CAR		<u> </u>	16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1 1	42	43	8-Sep-98	
PORTABLE TOILET		1 1	42	43	8-Sep-98	
RADIOS		3	120	123	8-Sep-98	
ORGANIC VAPOR MC	NITOR	1	40	41	8-Sep-98	
BOXTRUCK	<u> </u>	1	40	41	8-Sep-98	
MINI EXCAVATOR		11	36	37	14-Sep-98	
RENTAL MINI EXCAV	ATOR	<u> </u>	6	6	21-Sep-98	28-Sep-96
RENTAL COMPRESS	OR		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUC	K		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE	· · · · · · · · · · · · · · · · · · ·	1	· 30	31	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	14	15	12-Oct-98	
RENTAL PUMP		1	11	12		
	<u></u>	<u> </u>		·		
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WTS	QUALITY CONTROL REPORT	REPORT DATE		
T		Wednesday	27 <del>-9ut-0</del> 6	
	LOCATION AND DESCRIPTION OF DEFICIENCIES		28 oct	
	(Materials, Equipment, Safety, and/or Workmanship)			
	Nothing to report.			
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			<del></del>	
CHANGE II	N CONTRACT: CHANGE ORDER EXTRA WORK OTHER			
		<del></del>	1	
BIDITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL	
<del></del>	<del></del>		<u> </u>	
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	<del> </del>	<del></del>	<u> </u>	
	<del> </del>	<u> </u>		
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	<u> </u>		<u> </u>	
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT	NFORMATION)		
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Attacha	Parada Namo Tallanta Cofeta Mandian			
Attachm	Ients: WRS Tailgate Safety Meeting WRS Quality Control Report			
l	·			
i				
			•	
HYRS	Joe Anderson/Richard Scott	INTERNATIONAL LLC		
	WESTINGHOUSE REMEDIATION SERVICES, INC. RADIAN	INTERNATIONAL, LLC		

WES		<u> </u>	DAILY P	RODU	CTION	REPORT		Th day.	REPORT DATE	
	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	ite.		Thursday REPORT NO.	29-Oct-88	
		00	IIILE AUDEOCATION		-		•			
WRS JOB NO.		90	<u></u>		n, Texas	·=		43		
CLIENT NAME Teyas Na	atural Resource Conserv	ration Com					on/Richard So	cott		
WEATHER-AM					TEMPERATURE-A		60's			
WEATHER-PM		<u> </u>			TEMPERATURE PM 80'S					
WEXTREM	WESTINGHOUSE / SUBCONTRACT	OR WORKFORCE	<u> </u>		· Live Live (Co. C.)		TION AND DESCRI	TION	<del></del>	
				}		OF	WORK PERFORM	ED		
NUMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite @	6:30 am cor	nducted safe	ety &	
1	Project Manager	8	WRS			n meeting.			1	
1	HS/QC Officer	8	WRS				ackfilling be completed al			
. 1	Operator	11	WRS	•			und all vaul			
	Contract Labor	13	Greenfield				Placed leftov		<u>ne</u>	
	CONTRACT LABOR	"	Greatificia				cleanup of t			
	<u> </u>	<del> </del>				losed for th	e day and ai	i WRS empl	oyees	
1	Operator	·	WRS		<u>left.</u>		,			
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	<u> </u>	<del>                                     </del>	<del>- · · · · · · · · · · · · · · · · · · ·</del>							
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<b></b>	<u> </u>	<del> </del>	<del> </del>			DEB	DICM TOTA			
<u> </u>	<del> </del>	<del>                                     </del>				ł	DIEM TOTA			
	<u> </u>	<u> </u>				(in	cluding weekend	s)		
<u> </u>						USED TODAY		2	i	
						PREVIOUS REPOR	त	103		
						START OF PROJEC	ст	105	}	
TOTAL WORK	(HOURS ON JOB		WAS A JOB SAFETY I	VIEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	ENTS THIS DATE?	
SITE THIS DA	пе	40	<u> </u>							
1	TOTAL OF WORK	1725.5	[]YES	DX ] NO			[ ]YES	рд но		
	A PREVIOUS REPORT	1725.5	E-VCC 4774-01-0-	ov oe ur	r: Beccer	`	ENEC ATTACHO	OMPLETED OSHA I	FORM	
START OF PROJECT 1765.5		1765.5	IF YES", ATTACH CO	PT OF MEETIN	IG RECORD			THIS REPORT	Crow	
,	DESCRIPTION	SOIL	PROJECT SA	MPLE L		OTHER	<del></del>	COMMENTS		
			TWIFE	WHO TELE	TAVIER	JITIER .	<del> </del>	OCHMEN19		
SAM	LLECTED THIS DATE:	<del> </del>				<del> </del>				
PREVIOUS CL	UMULATIVE TOTAL:	<del>                                     </del>				<del> </del>	<del> </del>	<u> </u>		
TOTAL SAMP	LES COLLECTED:			<u> </u>	<u> </u>					

WAS						<b>7</b>		
		(Please write in categories n				Thursday	29-Oct-88	
<b>550</b> 5000000000000000000000000000000000	UNIT OF	QUANTITY		VIÕŪS	l a	URRENT PROJE	ा 🔻	
DESCRIPTION	MEASURE	THIS DATE	***	TIVE TOTAL	<u> </u>	TOTAL	<del></del>	
TRENCH EXCAVATED	FEET		1728			1,728		
TRENCH BACKFILLED	FEET		1139			1,139		
HDPE PIPE REMOVED	FEET		1,069			1,069		
VAULTS REMOVED	EACH		17		17			
WELLS INSTALLED	EACH		13			13		
HDPA PIPE INSTALLED	FEET		1405		<del></del>	1,405		
VAULTSINSTALLED	EACH	10	11			21		
ELECTRICAL CONDUIT	FEET		1390		<u>-</u> -	1,390		
WELL CUTTINGS	DRUM	·	96			96		
			<u> </u>					
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			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVA	
PROJECT MATER	IAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE	
PPE						N/A	N/A	
VISQUEEN						N/A	N/A	
DRUMS	<del></del>			86	86	N/A	N/A	
BARRICADE TAPE	· · · · · · · · · · · · · · · · · · ·	<del></del>		` 400	400	N/A	N/A	
2" HDPE PIPE			-	1155	1155	N/A	N/A	
PRE-CAST VAULTS				21	21	N/A	N/A	
EMBEDMENT SAND			2	- 14	16	N/A	N/A	
1" HDPE PIPE	·			850	850	N/A	N/A	
3" HDPE PIPE		<u></u>		250	250	N/A	N/A	
₩ 144 W 14 W 15		Crushed Rock	· 1	3	4			
		Crushed Kock	<del> </del>	<del>                                     </del>	<del></del> -	N/A	N/A	

(WRS)	PROJECT QUA	NTITY S	UMMAR	Y	REPORT DA			
		(continued)	···		Thursday	29-Oct-68		
SPEC/SWG NO	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE	INCORPORATED	IN JOB		COMMENTS			
	Refer to daily cost summary sheets attache	d.						
						·,		
			·					
·	4		,					
				·				
			<del></del>		·			
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL		
		(EACH)	(DAYS)	(DAYS)	DATE	DATE		
CREW TRUCK		1	44	45	21-Sep-98			
RENTAL CAR	<u> </u>		16	16	8-Sep-98	28-Sep-98		
OFFICE TRAILER		1	43	· 44	8-Sep-98			
PORTABLE TOILET	<u> </u>	1	43	44	8-Sep-98			
RADIOS		3	123	126	8-Sep-98			
ORGANIC VAPOR MO	1	41	42	8-Sep-98				
BOXTRUCK		1	41	42	8-Sep-98			
MINI EXCAVATOR		1	37	38	14-Sep-98			
REN MINI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98		
RENTAL COMPRESSO	DR		3	3	21-Sep-98	24-Sep-98		
RENTAL DUMP TRUC	<u> </u>		1	1	15-Sep-98	15-Sep-98		
RENTAL BACKHOE	<u> </u>	1	31	322	23-Sep-98			
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98		
COMPACTOR		11	15	16	12-Oct-98			
RENTAL PUMP			12	12				
				_				
		<u> </u>	-					
		<u> </u>						

Noth	ing to report.	LOCATION AND DESCRIPTION (Waterials, Equipment, Sefety, and		Thursday	29-Oct-88
Noth	<del></del>			·	
Noth	ing to report.	(Materials, Equipment, Safety, and	for Workmanship)		
Noth	ing to report.				
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	<u></u>				<del></del>
CHANGE IN CONT	RACT: CHANGE OR	DER EXTRA WORK	OTHER .	<u> </u>	<del></del>
			<del></del>		
METION	DESCRIPT	ON OF CHANGE		QUANTITY CHANGE	NEWTOTAL
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				<u> </u>	
					<del></del>
REMARKS: (INCLU	DE DIRECTIONS FROM CLIENT, VISITORS, COMP	LANCE NOTICES, SAFETY INSPECTIONS,	AND OTHER PERTINENT IN	ORMATION)	
	•				
Attachments:	WRS Tailgate Safety Meeting	-			
riuommenw.	WRS Quality Control Report				
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	I AR				
	Joe Anderson/Richard Sc			,	
WEST	TINGHOUSE REMEDIATION SERVICES		RADIAN II	ITERNATIONAL, LLC	

WES			DAILY P	RODU	CTION	REPORT			REPORT DATE
							<u> </u>	Friday	30-Oct-88
XELVER	ER NO.		TITLE AND LOCATION		Sol-Lynn Si	te	F	REPORT NO.	
VRS JOB NO.	4412-98-4029	90		Houston	n, Texas			44	
SAME THE LE					PROJECT MANAG		- m:	-44	
Texas Na	tural Resource Conserv	ation Comi	mission		<u>-</u>	Joe Anderso	on/Richard So	2011	
VEATHER-AM	Sunny				TEMPERATURE-A	м	60's	·	
WEATHER PM	Sunny	<u></u>			TEMPERATURE-P		80's	WION -	<u> </u>
	WESTINGHOUSE / SUBCONTRACTO	OR WORKFORCE				-	TION AND DESCRIF WORK PERFORMS		
(UMBER	TRADE	HOURS	EMPLO	YER	WRS arrive	ed onsite @	6:00 am cor	nducted safe	ety &
1	Project Manager	8	WRS			n meeting.	L <b>c</b> u:		
1	HS/QC Officer	8	WRS		*		ackfilling va on same vaul		:
1	Operator	12	WRS		and dump	<u>ing drums i</u>	n mound are	a. Remove	d rock on
. 1	Contract Labor	12	Greenfield	_			ation for asr		
			,				and debris w		
•		-					olacement ro		
1	Operator		WRS				bris. Electri aults along		
•						eanup of the		uic iccaci i	<u>vau.</u>
							e day and al	I WRS emple	ovees
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						PER	DIEM TOTA	ALS	
	ļ	ļ			•	(in	cluding weekend	s)	
<u> </u>						USED TODAY		2	
		<u> </u>				PREVIOUS REPOR	π	105	
						START OF PROJEC	ञा 💮	107	_
TOTAL WORK	HOURS ON JOB	]	WAS A JOB SAFETY	MEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?
SITE THIS DAT	E	40	ł						
	TOTAL OF WORK PREVIOUS REPORT	1765.5	[] YES	ON [ X]			[ ]YES	(X) NO	
	HOURS FROM					EORIA '			
START OF PRO		1805.5	1	HIS REPORT	·				
			PROJECT SA	AMPLE L	.OG				
	DESCRIPTION	SOIL	WPE	CONCRETE		OTHER		COMMENTS	-
SAMP	LECTED THIS DATE:							<del></del>	
PREVIOUS CU	MULATIVE TOTAL:	1				<u> </u>			-
TOTAL SAMPL	ES COLLECTED:	<u> </u>	<u></u>			<u> </u>			

### PROJECT QUANTITY SUMMARY REPORT DATE Friday 30-Oct-88 (Please write in categories no specified) PREVIÕUS UNIT OF QUANTITY CURRENT PROJECT **CUMULATIVE TOTAL** MEASURE THIS DATE TOTAL DESCRIPTION 1728 FEET 1,728 TRENCH EXCAVATED FEET 1139 1,139 TRENCH BACKFILLED HOPE PIPE REMOVED FEET 1,069 1,069 17 **EACH** 17 VAULTS REMOVED 13 **EACH** 13 WELLS INSTALLED FEET 1405 1,405 HOPA PIPE INSTALLED 21 VAULTS INSTALLED **EACH** 21 1390 1,390 **FEET** ELECTRICAL CONDUIT WELL CUTTINGS DRUM 96 96 USED TODAY PREVIOUS USE **TOTAL USE** REMAIN ON EST, REMOVAL **PROJECT MATERIAL LIST** (DAYS) (DAYS) (EACH) SITE DATE PPE N/A N/A VISQUEEN N/A N/A DRUMS 86 86 N/A N/A BARRICADE TAPE 400 400 N/A N/A 2" HDPE PIPE 1155 1155 N/A N/A PRE-CAST VAULTS N/A 21 21 N/A EMBEDMENT SAND 16 16 N/A N/A 1" HDPE PIPE 850 850 N/A N/A 3" HDPE PIPE 250 250 N/A N/A

Crushed Rock

4

4

N/A

N/A

N/A

N/A

	PROJECT QUANTITY SUMMARY REPORT DATE							
	÷		20-Oct-88					
SPEC / SIVG NO.	FOLIRMENT / MATERIAL RECEIVED	(continued)  EQUIPMENT / MATERIAL RECEIVED TODAY TO BE INCORPORATED IN JOB						
	Refer to daily cost summary she		<del>-</del>	COMMENTS				
					<u></u>			
				<del>-</del>	<del></del>	<del></del>		
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL		
		(EACH)	(DAYS)	(DAYS)	DATE	DATE		
CREWTRUCK	<u> </u>	1	45	46	21-Sep-98			
RENTAL CAR			16	16	8-Sep-98	28-Sep-98		
OFFICE TRAILER		1	44	45	8-Sep-98			
PORTABLE TOILET		1	44	45	8-Sep-98	 		
RADIOS		3	126	129	8-Sep-98			
ORGANIC VAPOR MO	NITOR	1	42	43_	8-Sep-98			
BOXTRUCK		·1	42	43	8-Sep-98			
MINI EXCAVATOR		1	38	39	14-Sep-98			
REN MINI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98		
RENTAL COMPRESSO	DR .		3	3	21-Sep-98	24-Sep-98		
RENTAL DUMP TRUC	к		1	11	15-Sep-98	15-Sep-98		
RENTAL BACKHOE		1	. 32	33	23-Sep-98			
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98		
COMPACTOR		1	16	17	12-Oct-98			
RENTAL PUMP			12	12				
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WRS	QUAI	ITY CONTROL	REPORT		REPORT DATE
				Friday	20-Oct-88
	LOCATIO	N AND DESCRIPTION OF I	DEFICIENCIES		
<u> </u>		terials, Equipment, Safety, and/or Wo	rkmenship)		
Nothing	to report.		٠	,	
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CHANGE IN CONTRA	CT: CHANGE ORDER	EXTRA WORK	OTHER		<del></del>
	DECORPTION OF CA			OUNTED CUNO	
ID ITEM	DESCRIPTION OF CH	ANGE	_	QUANTITY CHANGE	NEW TOTAL
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REMARKS: (NOLUDE D	RECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOT	ICPS, SAFETY INSPECTIONS, AND	OTHER PERTINENT IN	ORMATION)	
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Attachments:	WRS Tailgate Safety Meeting		`		
	WRS Quality Control Report				
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	Lest D				
(PR)	Joe Anderson/Richard Scott				
WESTING	SHOUSE REMEDIATION SERVICES, INC.		RADIAN II	NTERNATIONAL, LLC	

WIS			DAILY PR	ODUCTION	REPORT	•		REPORT DATE		
7			THE AND LOCATION	Sol-Lynn	Sifā"	<u> </u>	Saturday	31-Oct-88		
	DER NO.		TITLE AND LOCATION	-	One	[	REPORT NO.			
MRS JOB NO.	4412-98-402	290	<u> </u>	louston, Texas						
Cavas Na Tavas Na	itural Resource Conser	vation Com	mission .	PROJECT MAN	PROJECT MANAGER  Joe Anderson/Richard Scott					
		Valion Com	11133(0)1	TEMPERATUR	001-					
MEATHER-AM						70's	·			
MEATHER PM	Sunny WESTINGHOUSE / SUBCONTRACT	TOD INCOPERATE		TEMPERATUR		TION AND DESCRIP	TION .			
	WESTINGHOUSE/SUBCONTING	ION WOULTONGE	•			WORK PERFORM		]		
NUMBER	TRADE	HOURS	EMPLOYE	WRS arr	ived onsite @	6:00 am cor	nducted safe	etv &		
1	Project Manager	8	WRS	_	on meeting.	<del></del>				
		8	WRS		ntinued settin	,		and .		
	HS/QC Officer	<del></del>			and dumping					
1	Operator	10.5	WRS_		er company la					
<u> </u>	Contract Labor	10.5	Greenfield		ess the parking cleanup of th		<u>en pnone s</u>	tore.		
					closed for th		l WRS empl	OVERS		
	Opporter	1	WRS	left.	CICOCA IOI III		1 44110 CIMPI	7,005		
	Operator	+	VVICO	——  <del></del>		•				
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		<u> </u>			PER	DIEM TOTA	ALS			
		<u> </u>			(ir	ncluding weekend	s)	1		
		1			USED TODAY		2	ļ		
					PREVIOUS REPOR	रा	107			
· · · · · · · · · · · · · · · · · · ·		+					109	j		
·					START OF PROJE					
TOTAL WORK SITE THIS DAT	HOURS ON JOB	37	WAS A JOB SAFETY ME	ETING HELD THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	INTS THIS DATE?		
	TOTAL OF WORK	<del>  "                                   </del>	(]YES	(X ] NO		[ ]YES	DAI NO			
	PREVIOUS REPORT	1805.5	,,	ş., ş.,	•	, 1, 00	M			
TOTAL WORK	HOURS FROM	<del></del>	IF YES", ATTACH COPY	OF MEETING RECORD		IF YES", ATTACH C	OMPLETED OSHA I	FORM		
START OF PR		1842.5		REPORT			THIS REPORT			
PR		PROJECT SAN	IPLE LOG							
	DESCRIPTION	SOIL		NCRETE WATER	OTHER		COMMENTS			
SAME	LLECTED THIS DATE:		<u>                                      </u>					_		
PREVIOUS CUMULATIVE TOTAL:										
TOTAL SAMPL	ES COLLECTED:	<u> </u>	<u>                                      </u>					]		
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### PROJECT QUANTITY SUMMARY

		(Please write in categories n	o specified)			Saturday	\$1-Oct-88
•	UNITOF	QUANTITY	PREVICUS		CURRENT PROJECT		ст
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL	TOTAL		
TRENCH EXCAVATED	FEET		1728		1,728		
TRENCH BACKFILLED	FEET		1139	<u></u>	1,139		
HOPE PIPE REMOVED	FEET		1,069			1,069	
VAULTS REMOVED	EACH		17			17	
WELLS INSTALLED	EACH		13	<u>.</u>		13	
HDPA PIPE INSTALLED	FEET		1405			1,405	
VAULTS INSTALLED	EACH		21			21	<del></del> -
ELECTRICAL CONDUIT	FEET		1390			1,390	
WELL CUTTINGS	DRUM		96			96	
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		<u>-</u>		·	<u> </u>	<del></del>	
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				<del></del>		<del></del>	
				-			
	·			<del></del>			<u> </u>
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MAT	ERIAL LIST	'	(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE	·					N/A	N/A
VISQUEEN	<u></u>					N/A	N/A
DRUMS				86	86	N/A	N/A
BARRICADE TAPE	<del></del>			- 400	400	N/A	N/A
2' HDPE PIPE	······································			1155	1155	N/A	N/A
PRE-CAST VAULTS				21	21	N/A	N/A
EMBEDMENT SAND				· 16	16	N/A	N/A
1" HDPE PIPE				850	850	N/A	N/A
3" HDPE PIPE		··	-	250	250	N/A	N/A
• <u>••</u>		Crushed Rock		4	4	N/A	N/A
· · · · · · · · · · · · · · · · · · ·	·				<u> </u>	N/A	N/A

(NTS)	PROJECT QUA		UMMAR	Y		REPORT DATE
<b>4</b> —	<del>_</del>	(continued)			Saturday	31-Oct-88
PEC/DWG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		IN JOB	<del></del>	COMMENTS	
<u> </u>	Refer to daily cost summary sheets attache	ea,				
	4			·		_
	_				<del>.</del>	
	4					
	<u></u>					=
		Т	<u> </u>		r	F
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTALUSE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		11	46	47	21-Sep-98	
RENTAL CAR	·,	<u> </u>	16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	45	46	8-Sep-98	
PORTABLE TOILET		11	45	46	8-Sep-98	
RADIOS		3	129	132	8-Sep-98	·
ORGANIC VAPOR MO	NITOR	1	43	44	8-Sep-98	
30X TRUCK		11	43	44	8-Sep- <del>0</del> 6	
MINI EXCAVATOR		1	39	40	14-Sep-98	
RENTENTINI EXCAVA	TOR _		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	DR:		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUC	κ		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	33	34	23-Sep-96	
RENTAL MINI HOE			5	. 5	6-Oct-98	12-Oct-98
COMPACTOR	· · · · · · · · · · · · · · · · · · ·	11	17	18	12-Oct-98	
RENTAL PUMP			12	12		
					,	•
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	· ·			•		

WRS	QUALITY CONTROL REPORT		REPORT DATE
y		Saturday	\$1-Oct-88
	LOCATION AND DESCRIPTION OF DEFICIENCIES		
	(Materials, Equipment, Safety, and/or Workmanship)		
	Nothing to report.		
	<u>]</u>		
<u> </u>			
		<del></del>	
CHANGE I	CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
	T		
BIDITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
<del></del>			
·		·	
		<u> </u>	-
<del></del> _			
REMARKS	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT IN	(FORMATION)	
-			
-		•	
Attachn	vents: WRS Tailgate Safety Meeting		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WRS Quality Control Report		
نر_ ا	Sant De la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Company de la Compa		
	Joe Anderson/Richard Scott		
	<del></del>	NTERNATIONAL, LLC	
	TAIDING TAIDING		

	<u> </u>		DAILY PRO	DUCTION	REPORT	•		REPORT DATE	
						····	Monday	2-Nov-98	
DELI	RDER NO.	,	TITLE AND LOCATION	Sol-Lynn S	ite-		REPORT NO.		
WRS JOB NO	o. 4412-98-40	290	Ho	uston, Texas			46		
CLIENT NAM	E		<u> </u>	PROJECT MANAG	SER			•	
	latural Resource Conse	rvation Comr	mission		Joe Anderso	n/Richard Sc	ott	]	
WEATHER-A	м Sunny			TEMPERATURE-	 W	60's			
WEATHER-P	S			TEMPERATURE-	PM	70's			
	WESTINGHOUSE / SUBCONTRA	CTOR WORKFORCE			LOCATION AND DESCRIPTION OF WORK PERFORMED				
NUMBER	TRADE	HOURS	EMPLOYER	WRS arriv	ed onsite @	6:00 am cor	nducted safe	ty &	
	1 Project Manager	8	WRS		n meeting.			\\	
	1 HS/QC Officer	8	WRS			oncrete for to			
	1 Operator	11	WRS			critical path		- 1	
	1 Contract Labor	16	Greenfield	DAY.					
<u></u>	1 Contract Cabor		Orcenticia			oing drums i			
			,			<u>he treatmen</u>			
	1 Operator	1	WRS -			nued to plac		In the	
				mound area. General cleanup of the site.					
	<del>                                     </del>			Received from Radian Change Order #2 & #3. Number two was unsigned by John Kovski.					
				two was u	nsigned by	John Kovski	<u>l.</u> .	1	
		- [		Site was d	locad for th	e day and ail	I WDS ample		
				left.	ioseu ioi tii	e day and an	AAKS ellibid	yees	
	<del></del>			iett.				H	
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					<del> </del>				
		1			PER	DIEM TOTA	ALS		
	,				(in	cluding weekend	ds)		
					USED TODAY		2		
<del>-</del>	<u> </u>				PREVIOUS REPOR	RT	111		
		1 1			START OF PROJE	ст	113		
TOTAL MICH	RK HOURS ON JOB	<u>'</u>	WAS A JOB SAFETY MEET!	MG HELD THIS DATE?		WERE THERE ANY	LOST TIME ACCID	ENTS THIS DATE?	
SITE THIS		43							
	Æ TOTAL OF WORK	+ '-	- []YES	[X] NO		[ ] YE\$	рд ио		
L .	OM PREVIOUS REPORT	1842.5	•	-	•	••	• • • • • • • • • • • • • • • • • • • •	į	
	RK HOURS FROM .	-	IF "YES", ATTACH COPY OF	MEETING RECORD		IF "YES", ATTACH	COMPLETED OSHA	FORM	
START OF		1885.5	TO THIS REPORT			то	THIS REPORT		
			PROJECT SAMP	PLE LOG			<del></del>		
	DESCRIPTION	SOIL		CRET WATER	OTHER	<u> </u>	COMMENTS		
SAL	COLLECTED THIS DATE:								
PREVIOUS	CUMULATIVE TOTAL:		·						
<del></del>	APLES COLLECTED:								
1.017.07		1	L			1			

WELLS INSTALLED         EACH         13         13           HDPA PIPE INSTALLED         FEET         1405         1,405           VAULTS INSTALLED         EACH         21         21           ELECTRICAL CONDUIT         FEET         1390         1,390	(WIRS)		PROJECT QUA	NTITY S	SUMMAR	Υ		REPORT DATE
DESCRIPTION   MEASURE   TRIS DATE   CUMULATIVE TOTAL   TOTAL			(Please write in categories no	specified)			Monday	2-Nov-98
TRENCH EXCAVATED		UNIT OF	QUANTITY	PRE'	vions	CI	JRRENT PROJEC	CT T
TRENCH BACKFILED	DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		· TOTAL	
HOPE PIPE REMOVED	TRENCH EXCAVATED	FEET		1728			1,728	
AULTS REMOVED EACH 14 14 14 14 14 14 14 14 14 14 14 14 14	TRENCH BACKFILLED	FEET		1139			1,139	
WELLS INSTALLED	HDPE PIPE REMOVED	FEET		1,069			1,069	
HOPA PIPE INSTALLED  FEET  1405  1,405  1,405  1,405  1,405  1,405  1,405  1,405  1,405  1,405  1,405  1,405  1,405  1,405  1,405  1,390  1,390  1,390  1,390  1,390  1,390  1,390  96  96  96  96  96  97  98  98  98  98  98  98  98  98  98	VAULTS REMOVED	EACH		14			14	
### PROJECT MATERIAL LIST ### USED TODAY PREVIOUS USE (CAYS) (CAYS) (CAYS) STRE DATA    PROJECT MATERIAL LIST   USED TODAY PREVIOUS USE (CAYS) (CAYS) STRE DATA   VISQUEEN   NA NA NA NA NA PRE-CAST VAULTS   1155   NIA NA NA NA NA NA NA NA NA NA NA NA NA NA	WELLS INSTALLED	EACH		13			13	_
PROJECT MATERIAL LIST	HDPA PIPE INSTALLED	FEET		1405			1,405	
WELL CUTTINGS   DRUM   96   96   96   96   96   96   96   9	VAULTS INSTALLED	EACH		21			21	
PROJECT MATERIAL LIST    USED TODAY   PREVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVAL	ELECTRICAL CONDUIT	FEET		1390			1,390	
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE (DAYS)  (CAYS)  (CAYS)  (CAYS)  SITE  DATE  PPE  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  PROJECT MATERIAL LIST  PPE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  TOTAL USE  REMAIN ON  EST. REMOVAL  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	WELL CUTTINGS	DRUM	· ·	96			96	
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE (DAYS)  (CAYS)  (CAYS)  (CAYS)  SITE  DATE  PPE  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  PROJECT MATERIAL LIST  PPE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  TOTAL USE  REMAIN ON  EST. REMOVAL  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/								
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE (DAYS)  (CAYS)  (CAYS)  (CAYS)  SITE  DATE  PPE  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  PROJECT MATERIAL LIST  PPE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  TOTAL USE  REMAIN ON  EST. REMOVAL  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/								
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE (DAYS)  (CAYS)  (CAYS)  (CAYS)  SITE  DATE  PPE  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  PROJECT MATERIAL LIST  PPE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  TOTAL USE  REMAIN ON  EST. REMOVAL  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/								
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE (DAYS)  (CAYS)  (CAYS)  (CAYS)  SITE  DATE  PPE  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  PROJECT MATERIAL LIST  PPE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  TOTAL USE  REMAIN ON  EST. REMOVAL  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/								
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE (DAYS)  (CAYS)  (CAYS)  (CAYS)  SITE  DATE  PPE  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  PROJECT MATERIAL LIST  PPE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  TOTAL USE  REMAIN ON  EST. REMOVAL  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/						·····		
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE (DAYS)  (CAYS)  (CAYS)  (CAYS)  SITE  DATE  PPE  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  PROJECT MATERIAL LIST  PPE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  TOTAL USE  REMAIN ON  EST. REMOVAL  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/							,	
PROJECT MATERIAL LIST  USED TODAY PREVIOUS USE (DAYS)  (CAYS)  (CAYS)  (CAYS)  SITE  DATE  PPE  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  PROJECT MATERIAL LIST  PPE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  (CAYS)  SITE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  PREVIOUS USE  TOTAL USE  REMAIN ON  EST. REMOVAL  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  DATE  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/				<del>'</del>	·			
USED TODAY   PREVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVAL		-						
USED TODAY   PREVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVAL				· · · · · · · · · · · · · · · · · · ·				
PROJECT MATERIAL LIST    USED TODAY   PREVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVAL		<u> </u>				•		
PROJECT MATERIAL LIST    USED TODAY   PREVIOUS USE   TOTAL USE   REMAIN ON   EST. REMOVAL						<del></del>	<del></del>	
PROJECT MATERIAL LIST         (EACH)         (DAYS)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           BARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         1155         1155         N/A         N/A           PRE-CAST VAULTS         21         21         N/A         N/A           EMBEDMENT SAND         16         16         N/A         N/A           1" HDPE PIPE         850         850         N/A         N/A           3" HDPE PIPE         250         250         N/A         N/A           Crushed Rock         4         4         N/A         N/A	<del></del>							
PROJECT MATERIAL LIST         (EACH)         (DAYS)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           BARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         1155         1155         N/A         N/A           PRE-CAST VAULTS         21         21         N/A         N/A           EMBEDMENT SAND         16         16         N/A         N/A           1" HDPE PIPE         850         850         N/A         N/A           3" HDPE PIPE         250         250         N/A         N/A           Crushed Rock         4         4         N/A         N/A								<del></del>
PROJECT MATERIAL LIST         (EACH)         (DAYS)         (DAYS)         SITE         DATE           PPE         N/A         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           BARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         1155         1155         N/A         N/A           PRE-CAST VAULTS         21         21         N/A         N/A           EMBEDMENT SAND         16         16         N/A         N/A           1" HDPE PIPE         850         850         N/A         N/A           3" HDPE PIPE         250         250         N/A         N/A           Crushed Rock         4         4         N/A         N/A					<del></del>			
PPE         N/A         N/A         N/A           VISQUEEN         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           BARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         1155         1155         N/A         N/A           PRE-CAST VAULTS         21         21         N/A         N/A           EMBEDMENT SAND         16         16         N/A         N/A           1" HDPE PIPE         850         850         N/A         N/A           3" HDPE PIPE         250         250         N/A         N/A           Crushed Rock         4         4         N/A         N/A		<u> </u>	,	USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
VISQUEEN         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           BARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         1155         1155         N/A         N/A           PRE-CAST VAULTS         21         21         N/A         N/A           EMBEDMENT SAND         16         16         N/A         N/A           1" HDPE PIPE         850         850         N/A         N/A           3" HDPE PIPE         250         250         N/A         N/A           Crushed Rock         4         4         N/A         N/A	PROJECT MATERIAL	LIST		(EACH)	(DAYS)	(DAYS)	ŞITE	, DATE
VISQUEEN         N/A         N/A         N/A           DRUMS         86         86         N/A         N/A           BARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         1155         1155         N/A         N/A           PRE-CAST VAULTS         21         21         N/A         N/A           EMBEDMENT SAND         16         16         N/A         N/A           1" HDPE PIPE         850         850         N/A         N/A           3" HDPE PIPE         250         250         N/A         N/A           Crushed Rock         4         4         N/A         N/A	PPE					***************************************	N/A	N/A
DRUMS       86       86       N/A       N/A         BARRICADE TAPE       400       400       N/A       N/A         2" HDPE PIPE       1155       1155       N/A       N/A         PRE-CAST VAULTS       21       21       N/A       N/A         EMBEDMENT SAND       16       16       N/A       N/A         1" HDPE PIPE       850       850       N/A       N/A         3" HDPE PIPE       250       250       N/A       N/A         Crushed Rock       4       4       N/A       N/A							N/A	N/A
BARRICADE TAPE         400         400         N/A         N/A           2" HDPE PIPE         1155         1155         N/A         N/A           PRE-CAST VAULTS         21         21         N/A         N/A           EMBEDMENT SAND         - 16         16         N/A         N/A           1" HDPE PIPE         850         850         N/A         N/A           3" HDPE PIPE         250         250         N/A         N/A           Crushed Rock         4         4         N/A         N/A		<u>-</u>			86	86		
2" HDPE PIPE       1155       N/A       N/A         PRE-CAST VAULTS       21       21       N/A       N/A         EMBEDMENT SAND       16       16       N/A       N/A         1" HDPE PIPE       850       850       N/A       N/A         3" HDPE PIPE       250       250       N/A       N/A         Crushed Rock       4       4       N/A       N/A	BARRICADE TAPE				400	400		<u> </u>
PRE-CAST VAULTS         21         21         N/A         N/A           EMBEDMENT SAND         16         16         N/A         N/A           1" HDPE PIPE         850         850         N/A         N/A           3" HDPE PIPE         250         250         N/A         N/A           Crushed Rock         4         4         N/A         N/A	<del></del>							
EMBEDMENT SAND         - 16         16         N/A         N/A           1" HDPE PIPE         850         850         N/A         N/A           3" HDPE PIPE         250         250         N/A         N/A           Crushed Rock         4         4         N/A         N/A								<del>                                     </del>
1" HDPE PIPE         850         850         N/A         N/A           3" HDPE PIPE         250         250         N/A         N/A           Crushed Rock         4         4         N/A         N/A	<u> </u>							
3" HDPE PIPE 250 250 N/A N/A Crushed Rock 4 4 N/A N/A								
Crushed Rock 4 4 N/A N/A							<del> </del>	
	1	J-5-UT-7	Crushed Rock					
					<del>                                     </del>		<del> </del>	<del></del>

(VIII)	PROJECT QUA	NTITY S	SUMMAR	Y		REPORT DATE
		(continued)	<del></del>		Monday	2-Nov-98
SPEC G NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		TIN TOB		COMMENTS	
	Refer to daily cost summary sheets attached	J.				
	_		}			··,
	·				<del></del>	
		T	<u> </u>		<del></del> -	
, F	PROJECT EQUIPMENT LIST		PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE ·
CREW TRUCK		1	48	49	21-Sep-98	
RENTAL CAR		[	16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER	<u> </u>	1	48	49	8-Sep-98	
PORTABLE TOILET		1	48	49	8-Sep-98	
RADIOS		3	135	138	8-Sep-98	
ORGANIC VAPOR MO	NITOR	1	45	46	8-Sep-98	
BOX TRUCK		1	45	46	8-Sep-98	
MINI EXCAVATOR	·	1	41	42	14-Sep-98	
RENTE MINI EXCAVA	ATOR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	DR	ļ	3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUC	<u> </u>		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	35	36	23-Sep-98	
RENTAL MINI HOE		ļ	5	5 '	6-Oct-98	12-Oct-98
COMPACTOR		1	19	20	12-Oct-98	
RENTAL PUMP	·		12	12	<u> </u>	
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	QUALITY CONTROL REPORT		REPORT DATE
WRS		Monday	2 Nov. 08
	LOCATION AND DESCRIPTION OF DESIGNECIES	inonday	2-Nov-98
	(Materials, Equipment, Safety, and/or Workmanship)		
	Nothing to report.		
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			<del></del>
			<del>-</del>
CHANGE II	CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
	T	<u> </u>	
BID ITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
<del></del> :			
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	·		
		<u> </u>	<u> </u>
		<u> </u>	
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT	INFORMATION)	- 
	$\cdot$		
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Attachm			
	WRS Quality Control Report		
	•		
	$\sim 0.40$		
	Joe Anderson/Richard Scott		
		INTERNATIONAL, LLC	
		· · · · · · · · · · · · · · · · · · ·	

			DAILY P	RODU	CTION F	REPORT			REPORT DATE	
								Tuesday	3-Nov-98	
DELIVE	DER NO.		TITLE AND LOCATION		Sol-Lynn Sit	te-	F	REPORT NO.		
WRS JOB NO.	4412-98-4029	o		Houstor	n, Texas			47		
CLIENT NAME			_		PROJECT MANAG		_			
Texas Na	tural Resource Conserva	tion Comn	nission	·	• .	Joe Anderso	n/Richard Sc	ott		
WEATHER-AM	Sunny				TEMPERATURE-A	<u> </u>	60's			
WEATHER-PM	Sunny				TEMPERATURE-PI		70's			
	WESTINGHOUSE / SUBCONTRACTOR	NORKFORCE			LOCATION AND DESCRIPTION OF WORK PERFORMED					
NUMBER	TRADE	HOURS	EMPLO	YER	WRS arrive	ed onsite @	6:00 am cor	iducted safe	ty &	
1	Project Manager	8	WRS	II.	production		a in the allow	on the east	and	
1	HS/QC Officer	8	WRS					the mound.		
_ 1	Operator	11	WRS		13 pads an	d approxim		of slab was r	· II	
1	Contract Labor	11	Greenfield		with concr					
							rom DS-1 ar	<u>id dumped t</u>	hem on	
•					the mound		o niace null	boxes in the	bauna II	
, 1	Operator		WRS				tring in the c		<u> </u>	
						eanup of the				
						losed for the	day and all	WRS emplo	vees	
:					<u>left.</u>					
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,			<u> </u>		1					
		<u>'</u>				PER	DIEM TOTA	LS	,	
						(inc	cluding weekend	is)	1	
						USED TODAY		2		
						PREVIOUS REPOR	т	113	ļ	
	1	1				START OF PROJEC	ग	115		
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY N	AEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?	
SITE THIS DAT	TE .	38	1							
Į.	TOTAL OF WORK PREVIOUS REPORT	1885.5	[]YES	[X] NO			[ ]YES	DZ] NO		
TOTAL WORK	HOURS FROM		IF "YES", ATTACH CO	PY OF MEETI	NG RECORD		IF "YES", ATTACH (	COMPLETED OSHA	FORM	
START OF PR	OJECT	1923.5	тот	HIS REPORT			то	THIS REPORT		
_			PROJECT SA	MPLE L				•	<del></del>	
	DESCRIPTION	SOIL	WPE	CONCRET	WATER	OTHER		COMMENTS		
SAMES CO	LLECTED THIS DATE:					<u> </u>				
PREVIOUS CL	MULATIVE TOTAL:		ļ							
TOTAL SAMP	LES COLLECTED:		<u> </u>			<u> </u>		<u></u>		

		PROJECT QUA	NTITY	SUMMAR	Y		REPORT DATE
		(Please write in categories no	specified)		_	Tuesday	3-Nov-98
	UNIT OF	QUANTITY	PRE	vībna	Cl	JRRENT PROJEC	er
· DESCRIPTION	MEASURE	THIS DATE	CÚMULA	TIVE TOTAL	_	TOTAL	
TRENCH EXCAVATED	FEET		1728			1,728	
TRENCH BACKFILLED	FEET		1139			1,139	
HDPE PIPE REMOVED	FEET		1,069		_	1,069	
VAULTS REMOVED	EACH		14			14	
WELLS INSTALLED	EACH		13			13	
HDPA PIPE INSTALLED	FEET		1405			1,405	
VAULTS INSTALLED	EACH		21			21	
ELECTRICAL CONDUIT	FEET	21	1390			1,411	
WELL CUTTINGS	DRUM		96			96	
		•					
			-				
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					_		
•							
						<del></del>	·
					<del>-</del>	· <u></u>	
				·	_	<del></del>	-
,						-	
<u> </u>	<u></u>		USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERIAL	LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE					=	N/A	N/A
VISQUEEN	· · · · · · · · · · · · · · · · · · ·					N/A	N/A
DRUMS	<del></del>		·	86	86	N/A	N/A
BARRICADE TAPE				400	400	N/A	N/A
2" HDPE PIPE				1155	1155	N/A	N/A
PRE-CAST VAULTS				21	21	N/A	N/A
EMBEDMENT SAND				16	16	N/A	N/A
1" HDPE PIPE				850	850	N/A	N/A
3" HOPE PIPE				250	250	N/A	N/A
		Crushed Rock		4	4	N/A	N/A
					<del></del>	N/A	N/A

(V/RS)	PROJECT QUA	ANTITY	SUMMAR	Y		REPORT DATE
		(continued)			Tuesday	3-Nov-98
SPEC G NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		)- <del>IN</del> -JOB		COMMENTS	`
	Refer to daily cost summary sheets attache	ed.				,
	7			 		
	7		ļ			
	1			, <u>-</u>		
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	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	49	50	21-Sep-98	
RENTAL CAR		<del> </del>	16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	49	50	8-Sep-98	
PORTABLE TOILET		1	49	50	8-Sep-98	
RADIOS		3	138	141	8-Sep-98	
ORGANIC VAPOR MO	ANITOD	1	46	47	8-Sep-98	
	NITOR	<del>                                     </del>	46			
BOX TRUCK		1	1	47	8-Sep-98	
MINI EXCAVATOR		1 1	42	43	14-Sep-98	
REI MINI EXCAV		-	6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO			3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUC	.К	<del>                                     </del>	1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1 1	36	37	23-Sep-98	
RENTAL MINI HOE		<u> </u>	5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	20	21	12-Oct-98	
RENTAL PUMP			12	12		<u> </u>
					<u> </u>	
		1				1
		<del> </del>	<b>†</b>	<u> </u>		1
		<del></del>				
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<del>                                     </del>		<del> </del>	<del> </del>			
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	QUALITY CONTROL REPO	RT	REPORT DATE
		Tuesday	3-Nov-98
	LOCATION AND DESCRIPTION OF DEFICIENCIA	ES .	
	(Materials, Equipment, Safety, and/or Workmanship)		
	Nothing to report.		
	<u>↓</u> . }		
CHANGE II	N CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
0,20,000	OTHER		
BID ITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
	·		
- <u></u>			
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTIN	ENT INFORMATION)	
	,		
Attachm	ents: WRS Tailgate Safety Meeting	•	
	WRS Quality Control Report		
	5/2		ļ
	- Junio		
IVTLS	Joe Anderson/Richard Scott		
	WESTINGHOUSE REMEDIATION SERVICES, INC. RADIA	AN INTERNATIONAL, LLC	

WRS			DAILY P	RODU	CTION	REPORT			REPORT DATE
						· <del></del>		Wednesday	4-Nov-98
DELIN	RDER NO.		TITLE AND LOCATION	 !	Sol-Lynn S	ii <u>te</u> .		REPORT NO.	
WRS JOB NO	o. 4412-98	-40290		Houston	n, Texas			48	Î
CLIENT NAM	E		<del></del>		PROJECT MANA	GER		<del></del>	
Texas N	latural Resource Cor	servation Cor	nmission			Joe Anderso	on/Richard So	cott	
WEATHER-A	м Sunny		·		TEMPERATURE-	AM	60's		
WEATHER-PI	м Sunny				TEMPERATURE-		70's		
	WESTINGHOUSE / SUBCONT	TRACTOR WORKFOR	CE				TION AND DESCRI WORK PERFORM		
NUMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite @	6:00 am cor	nducted safe	ety &
	1 Project Manager	8	WRS			n meeting.			
	1 HS/QC Officer	8	WRS			e restoration e mound. Re			
	1 Operator	11	WRS			<u>d them on th</u>			is in neid
						n began pull			
	1 Contract Labor	11	Greenfield			Change Ord			
					by John K	Covski and d	ated 10-30-9	8, the order	was not
	1 Operator		WRS			<u>d until Mond</u>		s week.	).
	<del> </del>					leanup of the			
		<del>-  </del>	<del>- </del>			losed for the	e day and al	I WRS emplo	oyees
					<u>left.</u>				1
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			<u> </u>						
					f	PER	DIEM TOTA	ALS	
						(in	cluding weeken	ds)	
<b> </b>		·				USED TODAY		2	
<b></b> -	<del></del>		<del>                                     </del>			PREVIOUS REPOR	т	115	
<b></b> -	<del></del>		<del> </del>					117	
<u> </u>	_ <u></u>	1	1			START OF PROJEC	<del></del>	لـــــــــــــــــــــــــــــــــــــ	
1	RK HOURS ON JOB	38	WAS A JOB SAFETY!	MEETING HELI	D THIS DATE?		WERE THERE AN	LOST TIME ACCID	ENTS THIS DATE?
SITE THIS D	<del></del>			N1110			LIVEC	PO NO.	
_	Æ TOTAL OF WORK OM PREVIOUS REPORT	1923.5	[] YES	(X) NO		~	[]YES	рд но	
	RK HOURS FROM		IF "YES", ATTACH CO	NOV OF MEETI	NG RECORD		IF "VES" ATTACH	COMPLETED OSKA	CODM
START OF P		1961.5	, ·	HIS REPORT				THIS REPORT	
			PROJECT SA	AMPLE L	OG				
	DESCRIPTION	SOIL	WPE	CONCRET	WATER	OTHER		COMMENTS	
SALC	COLLECTED THIS DATE:	<u>_</u> ' :				<u> </u>			
PREVIOUS (	CUMULATIVE TOTAL:								
TOTAL SAM	RPLES COLLECTED:								

### PROJECT QUANTITY SUMMARY

WRS		FIGULOT GOA			<b>.</b> •		REPORT DATE
	· · · · · · · · · · · · · · · · · · ·	(Please write in categories no	specified)		<del></del> -	Wednesday	4-Nov-98
	UNIT OF	QUANTITY	PRE	vaous	CI	JRRENT PROJEC	т
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		1728			1,728	
TRENCH BACKFILLED	FEET		1139			1,139	
HOPE PIPE REMOVED	FEET		1,069			1,069	
VAULTS REMOVED	EACH		14			14	
WELLS INSTALLED	EACH		13			13	
HDPA PIPE INSTALLED	FEET		1405			1,405	
VAULTS INSTALLED	EACH		21			21	
ELECTRICAL CONDUIT	FEET		1411			1,411	
WELL CUTTINGS	DRUM		96			96	
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	<del> </del>						
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVA
PROJECT MATERIAL	L LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE					<u> </u>	N/A	N/A
VISQUEEN						N/A	N/A
DRUMS				86	86	N/A	N/A
BARRICADE TAPE				400	400	N/A	N/A
2" HDPE PIPE				1155	1155	N/A	N/A
PRE-CAST VAULTS	-		<del></del>	21	21	N/A	N/A
EMBEDMENT SAND				- 16	16	N/A	N/A
1" HDPE PIPE		· · · · · · · · · · · · · · · · · · ·		850	850	N/A	N/A
3" HDPE PIPE	<del></del>		<u> </u>	250	250	N/A	N/A
7 101 - 11 -		Crushed Rock	· · · · ·	4	4	N/A	N/A
	_	CIESTIEU NOCK		<del>                                     </del>	- <del>-</del>		
		<del>,</del> _	<u> </u>	<u></u>	<u> </u>	N/A	N/A

(WRS)	PROJECT QU	ANTITY S	SUMMAR	Υ		REPORT DATE
		(continued)			Wednesday	4-Nov-98
SPEC /G NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO B		O'IN-YOB		COMMENTS	
•	Refer to daily cost summary sheets attach	ed.		<u> </u>		
	·					
			·		····	
P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	50'	51	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	50 .	51	8-Sep-98	
PORTABLE TOILET		1	50	51	8-Sep-98	
RADIOS		3	141	144	8-Sep-98	
ORGANIC VAPOR MON	NITOR	1	47	48	8-Sep-98	
BOX TRUCK		1	47	48	8-Sep-98	
MINI EXCAVATOR		1	43	44	14-Sep-98	
REN MINI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK			1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	37	38	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	21	22	12-Oct-98	
RENTAL PUMP			١ 12	12		·
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WRS		QUA	LITY CONTRO	L REPORT		REPORT DATE
					Wednesday	4-Nov-98
		LOCATIO	ON AND DESCRIPTION OF	DEPICIENCIES		
		(M	laterials, Equipment, Safety, and/or V	Vorkmanship)		
1	Nothing to report.					
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					i	
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	= <u></u>	<u></u>			· · · · · · · · · · · · · · · · · · ·	
HANGE IN C	CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER		
		· · · · · · · · · · · · · · · · · · ·			<u> </u>	
ID ITEM		DESCRIPTION OF C	HANGE		QUANTITY CHANGE	NEW TOTAL
	•		<u></u> .			
			·			
			<u> </u>			
REMARKS: (I	NCLUDE DIRECTIONS FRO	M CLIENT, VISITORS, COMPLIANCE NO	TICES, SAFETY INSPECTIONS, A	ID OTHER PERTINENT I	NFORMATION)	
	<del></del> -				· · · · · · · · · · · · · · · · · · ·	<u> </u>
Attachmer		gate Safety Meeting		•		
	WRS Qua	ality Control Report				
	0	4 2		•		
-						
	Joe And	erson/Richard Scott				
w,		MEDIATION SERVICES, INC.		RADIANI	NTERNATIONAL, LLC	

	<del></del>		DAILY P	RODU	ICTION	REPORT			REPORT DATE		
<u>e</u>				<u></u>				Thursday	5-Nov-98		
DELIVE THE	DER NO.		TITLE AND LOCATION		Sol-Lynn S	ite.	1	REPORT NO.			
WRS JOB NO.	4412-98-4029	0		Housto	n, Texas	į		49	1		
CLIENT NAME		-	<u> </u>		PROJECT MANAG	SER			~		
Texas Na	itural Resource Conserva	ation Comr	nission			Joe Anderso	on/Richard So	ott	Ī		
WEATHER-AM	Sunny				TEMPERATURE-A	м	60's		•		
WEATHER-PM	Sunny				TEMPERATURE-F	M	70's				
	WESTINGHOUSE / SUBCONTRACTO	R WORKFORCE			LOCATION AND DESCRIPTION OF WORK PERFORMED						
NUMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite @	6:00 am cor	ducted safe	ty &		
1	Project Manager	8	WRS		production	n meeting.					
1	HS/QC Officer	8	WRS		Began site	restoration	bv movina	excess soil f	rom field		
1	Operator	11	WRS		area to the	mound. Co	ompleted rer	noving form	s from		
1	Contract Labor	22	Greenfield					the vaults in			
					mound. A	lso all debri	<u>s was placed</u>	in the rollo	<u>ff.</u>		
1	Operator		WRS								
			<u> </u>		<u>Electriciar</u>	began pulli	ing wire to a	li puli boxes.	<u>.</u>		
							•		:		
					General ci	eanup of the	e site.				
_		· <b></b> -				losed for the	e day and all	WRS emplo	yees ]		
	·				<u>left.</u>				]		
<u>.</u>											
						•			1		
			_								
						PER	DIEM TOTA	LS			
						(inc	cluding weekend	ls)			
						USED TODAY		2			
					Į.	PREVIOUS REPOR	ī	117			
	1	1				START OF PROJEC	प्र	119			
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY N	KEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?		
SITE THIS DAT		49									
	TOTAL OF WORK PREVIOUS REPORT	1961.5	[]YES	(x)		•	[ ] YES	ои ра			
TOTAL WORK	HOURS FROM		IF "YES", ATTACH CO	PY OF MEETI	NG RECORD		IF "YES", ATTACH C	OMPLETED OSHA F	ORM		
START OF PR	OJECT	2010.5	то п	HIS REPORT			то	THIS REPORT			
	PRO			MPLE L							
	DESCRIPTION	SOIL	WIPE	CONCRET	WATER	OTHER		COMMENTS			
SAM	LECTED THIS DATE:							<del></del>			
PREVIOUS CU	MULATIVE TOTAL:							<del> </del>			
TOTAL SAMPL	ES COLLECTED:		<u> </u>			<u> </u>					

(WIS)		PROJECT QUA	NTITY	SUMMAR	RY	- <u>,,</u> ,	REPORT DATE
		(Please write in categories n	o specified)	_		Thursday	5-Nov-98
	UNIT OF	QUANTITY	PRE	v <u>io</u> us	С	URRENT PROJE	СТ
DESCRIPTION	MEASURE	THIS DATE	CUMULA	ATIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		1728			1,728	
TRENCH BACKFILLED	FEET		1139			1,139	
HDPE PIPE REMOVED	FEET		1,069			1,069	
VAULTS REMOVED	EACH		14			14	
WELLS INSTALLED	EACH		13	<u></u>		13	
HDPA PIPE INSTALLED	FEET		1405			1,405	
VAULTS INSTALLED	EACH		21			21	
ELECTRICAL CONDUIT	FEET		1411			1,411	
WELL CUTTINGS	DRUM		96	-		96	
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<u> </u>	1					· ·	
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	<del>  </del>					·	
		<del></del>	·				
	<u></u>		USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERIAI	L LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE	<u>.</u>					N/A	N/A
VISQUEEN	<del></del>					N/A	N/A
DRUMS				86	86	N/A	N/A
BARRICADE TAPE				400	400	N/A	N/A
2" HDPE PIPE	•			1155	1155	N/A	N/A
PRE-CAST VAULTS				21	21	N/A	N/A
EMBEDMENT SAND				- 16	16	N/A	N/A
1" HOPE PIPE			-	850	850	N/A	N/A
3" HDPE PIPE				250	250	N/A	N/A
		Crushed Rock		4	4	N/A	N/A
						N/A	N/A
			l			<u> </u>	

WRS	PROJECT QUA	NTITY S	SUMMAR	Υ		REPORT DATE
		(continued)			Thursday	5-Nov-98
SPE G NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE	INCORPORATED	OTAT-1OB		COMMENTS	
	Refer to daily cost summary sheets attache	d.				
	]					
				· · · · · · · · · · · · · · · · · · ·		
	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		11	51	52	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	51	52	8-Sep-98	
PORTABLE TOILET		1	51	52	8-Sep-98	
RADIOS		3	144	147	8-Sep-98	
ORGANIC VAPOR MO	NITOR	1	48	49	8-Sep-98	
BOX TRUCK	·	1	48	49	8-Sep-98	
MINI EXCAVATOR		1	44	45	14-Sep-98	
REI MINI EXCAVA	ATOR		6	. 6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	DR .		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUC	K	,	1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	38	39	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	22	23	12-Oct-98	
RENTAL PUMP			12	12		
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				<u> </u>		
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IVRS		Ql	JALIT	Y CONTROI	REPORT		REPORT DATE
						Thursday	5-Nov-98
		LOC	INA NOITA:	D DESCRIPTION OF	DEFICIENCIES		
<u></u>		- Auto-	(Materials,	Equipment, Safety, and/or V	/orkmanship)		
	Nothing to report.						
	1						
					•		
	<u> </u>						
<del></del>	<del> </del>						
CHANGE IN	N CONTRACT:	CHANGE ORDER	. [	EXTRA WORK	OTHER		
	<u> </u>				_		
ID ITEM		DESCRIPTION	UF CHANGE	: 		QUANTITY CHANGE	NEW TOTAL
			,				
<u>.                                    </u>	•	<del></del>					
			-				
REMARKS:	(INCLUDE DIRECTIONS ED	OM CLIENT, VISITORS, COMPLIANC	CE NOTICES S	SAFETY INSPECTIONS AN	OTUGO DEDTINENT IN	EOPMATION)	
ENAINO.	(MCCODE DIRECTIONS FR	OM CEIENT, VISITORS, COMPERATE	ACTICES, S	parett ingred none, an	O OTHER PERTINENT IN	PORMATION)	
						·	
		•	-				
Attachme	ents: WRS Ta	ilgate Safety Meeting					
		ality Control Report					
	10			•	-		
	Joe And	erson/Richard Scott		,		<u> </u>	
		EMEDIATION SERVICES, I			RADIAN IN	NTERNATIONAL, LLC	

		-	DAILY P	RODU	CTION	REPORT			REPORT DATE	
								Friday	6-Nov-98	
<b>DEL</b> DR	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	te-	1	REPORT NO.		
WRS JOB NO.	4412-98-4029	0		Housto	n, Texas			50	_ :	
CLIENT NAME					PROJECT MANAG					
	atural Resource Conserva	ition Comp	nission		Joe Anderson/Richard Scott					
WEATHER-AM			<del></del>		TEMPERATURE-A		60's			
WEATHER-PM			<del></del>		TEMPERATURE-P		70's	ZTION		
	WESTINGHOUSE / SUBCONTRACTO	R WORKFORCE					WORK PERFORM	•		
NUMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite @	6:00 am cor	nducted safe	ty &	
1	Project Manager	8	WRS		production	n meeting.			i	
1	HS/QC Officer	8	WRS		Continued	site restora	tion by repa	iring fence p	osts	
_1	Operator	13	WRS					. Poured all		
1	Contract Labor	17	Greenfield			•		side of cell p		
							•	ts & DOT dri	veway in	
			WRS		west lielu)	Lilliteen yar	<u>rds</u> were pou	ireu touay.		
,	Operator		VVKS		Electrician	finished pu	illing all elec	trical wires.	They	
		<del>- :</del>	_		only have	the signal w	<u>ire left to pu</u>	<u>II.</u>		
					0		14-		1	
	·				<u>General ci</u>	eanup of the	e site.		- 1	
<u>.</u>	<u> </u>				Site was c	losed for the	e day and all	WRS emplo	yees	
	·				<u>left.</u>		•			
		_							-	
			-						1	
						•			1	
<del>;</del>						<u> </u>	<u></u>			
						DED	DIEM TOTA	10	1	
		· · · ·								
-							cluding weekend			
	<u> </u>					USED TODAY		2	I	
						PREVIOUS REPOR		119		
	1	1				START OF PROJEC		121		
SITE THIS DA	HOURS ON JOB	46	WAS A JOB SAFETY N	AEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?	
<del></del>	TOTAL OF WORK		[] YES	ON [X]			[ ] YES	[х] но		
HOURS FROM	PREVIOUS REPORT	2010.5				`		•		
	HOURS FROM	0050.5	IF "YES", ATTACH CO		NG RECORD		·	COMPLETED OSHA	FORM	
START OF PR	OJECT	2056.5	<u> 10 T</u>	HIS REPORT		<u> </u>	то	THIS REPORT	· 	
	DESCRIPTION	601	PROJECT SA			OTHER	<del>,                                     </del>	COMMENTO		
		SOIL	WIPE	CONCRET	WATER	OTHER	<del></del>	COMMENTS		
	LLECTED THIS DATE:		-		<u>.                                    </u>					
	UMULATIVE TOTAL:		1			<del> </del>	<del> </del>			
TOTAL SAMP	LES COLLECTED:				}	<u> </u>	<u></u>			

# (WAS)

### PROJECT QUANTITY SUMMARY

		(Please write in categories no	specified)	<del> </del>		Friday	6-Nov-98
	UNIT OF	QUANTITY	PRE	VIOUS	CI	JRRENT PROJE	CT
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		1728			1,728	
TRENCH BACKFILLED	FEET		1139			1,139	
HDPE PIPE REMOVED	FEET		1,069			1,069	<u> </u>
VAULTS REMOVED	EACH		14			14	<u> </u>
WELLS INSTALLED	EACH		13			13	·
HDPA PIPE INSTALLED	FEET	<u>.</u>	1405			1,405	<u>-</u>
VAULTS INSTALLED	EACH		21			21	······································
ELECTRICAL CONDUIT	FEET		1411		<del></del>	1,411	
WELL CUTTINGS	DRUM		96	·		96	
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	·						
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	· _						
•					_		
_					_		
			1				
· · · · · · · · · · · · · · · · · · ·		-					
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST, REMOVA
PROJECT MATE	RIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
Cement (yards)			13	6	19	N/A	N/A
DRUMS				86	. 86	N/A	N/A
BARRICADE TAPE				- 400	400	N/A	N/A
2" HDPE PIPE				1155	1155	N/A	N/A
PRE-CAST VAULTS				21'	21	N/A	N/A
EMBEDMENT SAND				- 16	16	N/A	N/A
1" HDPE PIPE				850	850	N/A	N/A
3" HDPE PIPE	<del></del>			250	250	N/A	NA
		Crushed Rock		4	4	N/A	NA
	·				<u> </u>	N/A	N/A

	PROJECT QUA	NTITY	SUMMAR	Y		REPORT DATE
		(continued)			Friday	6-Nov-98
SPE WG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE I		IN IOR		COMMENTS	04101-38
SPE VG NO.	Refer to daily cost summary sheets attached	~	. <u> </u>		COMMENTS	
				· ·		
P	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
,		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	52	53	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	52	53	8-Sep-98	
PORTABLE TOILET		1	52	53	8-Sep-98	
RADIOS		3	147	150	8-Sep-98	
ORGANIC VAPOR MON	NITOR	1	49	50	8-Sep-98	
BOX TRUCK		1	49	50	8-Sep-98	
MINI EXCAVATOR		1	45	46	14-Sep-98	
RENTAL MINI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98
RE. COMPRESSO			3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK	<u></u>		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	39	40	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	23	24	12-Oct-98	
RENTAL PUMP			12	12		
				·		
	10000					

IVRS	QU	JALITY CONTROL	REPORT	<u></u>	REPORT DATE
			···	Friday	6-Nov-98
	LOCA	ATION AND DESCRIPTION OF	DE <u>FI</u> CIENCIES		. 4
		(Materials, Equipment, Safety, and/or W	orkmanship)		
ING	thing to report.				
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<u></u>				· · · · · · · · · · · · · · · · · · ·	<u></u>
CHANGE IN CO	ONTRACT: CHANGE ORDER	EXTRA WORK	OTHER		
ID ITEM	DESCRIPTION O	OF CHANGE		QUANTITY CHANGE	NEW TOTAL
		<del> </del>		· · · · · · · · · · · · · · · · · · ·	
		·			
REMARKS: (INC	LUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE	E NOTICES, SAFETY INSPECTIONS, AND	OTHER PERTINENT IN	FORMATION)	
•					
Attachment	s: WRS Tailgate Safety Meeting				
	WRS Quality Control Report				
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	00 4		and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th		
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WTLS	Joe Anderson/Richard Scott				
ヒッ	ESTINGHOUSE REMEDIATION SERVICES, IN	IC.	RADIAN II	NTERNATIONAL, LLC	

WRS			DAILY P	RODU	CTION	REPORT	•		REPORT DATE		
<u> </u>			<u> </u>		<del></del>		···	Saturday	7-Nov-98		
DELIVER	DÉR NO.		TITLE AND LOCATION	•	Sol-Lynn Si	t <del>o</del> -	F	REPORT NO.			
MRS JOB NO.	4412-98-4029	0		Houston	n, Texas	}		51	. }		
CLIENT NAME		<u> </u>			PROJECT MANAGER						
Texas Na	tural Resource Conserva	tion Comn	nission			Joe Anderso	n/Richard Sc	ott			
WEATHER-AM	Sunny				TEMPERATURE-A	м	60's				
WEATHER-PM	Sunny	<b></b>	TEMPERATURE-PM				70's				
	WESTINGHOUSE / SUBCONTRACTOR	WORKFORCE			LOCATION AND DESCRIPTION OF WORK PERFORMED						
NUMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite @	6:00 am con	ducted safe	tv &		
1	Project Manager	8	WRS		production						
	HS/QC Officer	8	WRS		But up for	ce hetween	cell phone s	toro and car	not		
1	Operator	10	WRS		store.	ce netween	cen phone s	tore and car	per		
	Contract Labor	20	Greenfield		Put all nin		ether and be	egan placing	them		
· ·	Ond Box Cabor		0100111010		<u>into wells.</u>		_				
•							<u>ilt connectio</u>	<u>ns (valves, f</u>	<u>ittings</u>		
, 1	Operator		WRS		and flow n	<u>neters).</u>					
					General cl	eanup of the	e site.				
					Site was c	losed for the	e day and all	WRS emplo	<u>yees</u>		
				-	ien.						
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						DED	DIEM TOTA	10			
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						(in-	cluding weekend	(S)			
			<u> </u>		,	USED TODAY		2	1		
						PREVIOUS REPOR	т	121			
	1	1				START OF PROJEC	т	123			
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY	AEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?		
SITE THIS DAT	TR .	46									
	TOTAL OF WORK	2056.5	[] YES	[x] NO	·	•	[]YE\$	[х] ио			
HOURS FROM PREVIOUS REPORT			IF "YES", ATTACH CO	PY OF MEETI	NG RECORD		IF "YES", ATTACH C	OMPLETED OSKA F	ORM		
TOTAL WORK HOURS FROM START OF PROJECT 2		2102.5	·	HIS REPORT				THIS REPORT			
			PROJECT SA	MPLEL	.OG				<del>_</del>		
	DESCRIPTION	SOIL		CONCRET	WATER	OTHER		COMMENTS			
SAM	LECTED THIS DATE:		-								
PREVIOUS CU	MULATIVE TOTAL:							•			
TOTAL SAMPL	ES COLLECTED:										
	<del></del>										

N/A

N/A

#### PROJECT QUANTITY SUMMARY REPORT DATE Saturday (Please write in categories no specified) 7-Nov-98 UNIT OF **PREVIOUS** QUANTITY **CURRENT PROJECT** DESCRIPTION MEASURE THIS DATE **CUMULATIVE TOTAL** TOTAL FEET 1728 TRENCH EXCAVATED 1,728 TRENCH BACKFILLED FEET 1139 1,139 1,069 **FEET** 1,069 HDPE PIPE REMOVED VAULTS REMOVED **EACH** 14 14 EACH WELLS INSTALLED 13 13 **FEET** 1405 1,405 HOPA PIPE INSTALLED **EACH** 21 21 VAULTS INSTALLED ELECTRICAL CONDUIT **FEET** 1411 1,411 DRUM 96 96 WELL CUTTINGS USED TODAY PREVIOUS USE **TOTAL USE** REMAIN ON **EST. REMOVAL PROJECT MATERIAL LIST** (EACH) (DAYS) (DAYS) SITE DATE PPE N/A N/A Ø 18 20 1 201 Cement (yards) N/A N/A DRUMS 86 N/A N/A 86 BARRICADE TAPE 400 400 N/A N/A 2" HDPE PIPE 1155 1155 N/A N/A PRE-CAST VAULTS 21 21 N/A N/A EMBEDMENT SAND 16 16 N/A N/A 1º HDPE PIPE 850 850 N/A N/A 3" HDPE PIPE N/A 250 250 N/A Crushed Rock 4 4 N/A N/A

PROJECT QUANTITY SUMMARY R						REPORT DATE
		(continued)			Saturday	7-Nov-98
SPE G NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		H+JOB		COMMENTS	
	Refer to daily cost summary sheets attache	d.				• .
<u>.</u>			ļ			
P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		111	53	54	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	53	54	8-Sep-98	
PORTABLE TOILET		1_1_	53	54	8-Sep-98	
RADIOS		3	150	153	8-Sep-98	
ORGANIC VAPOR MON	IITOR	1	50	51	8-Sep-98	
BOX TRUCK		1	50	51	8-Sep-98	
MINI EXCAVATOR		1	46	47	14-Sep-98	
REI MINI EXCAVA	TOR	<u> </u>	6	- 6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK		<u> </u>	11	11	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	40	41	23-Sep-98	
RENTAL MINI HOE			5	_5	6-Oct-98	12-Oct-98
COMPACTOR		11	24	25	12-Oct-98	
RENTAL PUMP			12	12		
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		Saturday	7-Nov-98
	LOCATION AND DESCRIPTION OF DEELCIENCIES		
	(Materials, Equipment, Safety, and/or Workmanship)		
	Nothing to report.		
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	<u>.</u>		
			· •••
CHANGE I	N CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
<u></u>			
BID ITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
<del>.</del>			
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT IN	IFORMATION)	
Attachm	ents: WRS Tailgate Safety Meeting		
	WRS Quality Control Report	•	
	$\sim$ 2		
WRS	Joe Anderson/Richard Scott		
	WESTINGHOUSE REMEDIATION SERVICES, INC. RADIAN	NTERNATIONAL, LLC	

WRS			DAILY P	RODU	CTION	REPORT			REPORT DATE	
9	<u> </u>	<del></del>					<del></del>	Sunday	8-Nov-98	
<b>DELI</b>	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	te.	ı	REPORT NO.		
WRS JOB NO.	4412-98-4029	0		Houstor	ton, Texas 52					
CLIENT NAME	·				PROJECT MANAGER					
Texas Na	itural Resource Conserva	ation Comr	nission	ssion Joe Anderson/Richard Scott						
WEATHER-AM	Cloudy/Rain				TEMPERATURE-AM 60'S					
WEATHER PM	Cloudy	<del></del>		-	TEMPERATURE-PM 70'S					
	WESTINGHOUSE / SUBCONTRACTOR	R WORKFORCE			<u> </u>		ION AND DESCRIP WORK PERFORM		<del></del> =	
NUMBER	TRADE	HOURS	EMPLO	YER	WRS arrived onsite @ 6:00 am conducted safety &				ty &	
1	Project Manager	8	WRS	41	production			<del></del> '		
	HS/QC Officer	8	WRS		Finished p	lacing the p	umps into w	ells and cor	ntinued	
1	Operator	6	WRS					ves, fittings	,	
1	Contract Labor	12	Greenfield		<u>meters).</u>				4 can	
	1				General ci	eanup of the	site.			
1	1 Operator					· <u> </u>	<del></del> _		į	
	opo.uto.		WRS		Site was closed for the day and all WRS employees					
		<del></del> -	<u> </u>		<u>left.</u>					
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						PER	DIEM TOTA	\LS		
			<u> </u>			(in	cluding weekend	is)		
						USED TODAY		2		
						PREVIOUS REPOR	т_	123		
	1	1				START OF PROJEC	т	125		
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY I	MEETING HELI	THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?	
SITE THIS DA	πε	34	]							
CUMULATIVE	TOTAL OF WORK		[] YES	[X] NO			[]YES	рд ио	:	
HOURS FROM	PREVIOUS REPORT	2102.5	4			•				
TOTAL WORK HOURS FROM		0405 -	IF TYEST, ATTACH CO	PY OF MEETI	NG RECORD			COMPLETED OSHA	FORM	
START OF PR	OJECT	2136.5	107	HIS REPORT			то	THIS REPORT		
ļ			PROJECT SA	MPLE L	OG	_				
	DESCRIPTION	SOIL	WIPE	CONCRET		OTHER		COMMENTS		
s co	LLECTED THIS DATE:	<u> </u>								
PREVIOUS C	JMULATIVE TOTAL:									
TOTAL RAMP	LES COLLECTED:									
			1		L	1				

(VIIS)	Р	ROJECT QUA	NTITY	SUMMAR	RY		REPORT DATE
		(Please write in categories n	o specified)			Sunday	8-Nov-98
	UNIT OF	QUANTITY	PRE	vious	C	URRENT PROJE	er 🙍
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL	<u> </u>	TOTAL	
TRENCH EXCAVATED	FEET		1728			1,728	
TRENCH BACKFILLED	FEET		1139			1,139	
HDPE PIPE REMOVED	FEET		1,069		_	1,069	
VAULTS REMOVED	EACH		14			14	
WELLS INSTALLED	EACH		13			13	
HDPA PIPE INSTALLED	FEET		1405			1,405	<u></u>
VAULTS INSTALLED	EACH		21			21	
ELECTRICAL CONDUIT	FEET		1411			1,411	
WELL CUTTINGS	DRUM		96			96	
			_	<u>-</u> .		, <u>-</u>	
•						•	
·				- <del></del>			
				<del></del>	<u></u> _	,	
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		<del></del>					
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVA
PROJECT MAT	ERIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
Cement (yards)	·		±018	20 19	Z028	N/A	N/A
DRUMS				86	86	N/A	N/A
BARRICADE TAPE				400	400	N/A	N/A
2" HDPE PIPE				1155	1155	N/A	N/A
PRE-CAST VAULTS				21	21	N/A	N/A
EMBEDMENT SAND				. 16	16	N/A	N/A
1" HDPE PIPE				850	850	N/A	N/A
3" HDPE PIPE				250	250	N/A	N/A
		Crushed Rock		4	4	N/A	N/A
					1	N/A	N/A

17.05	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	~! <b>!</b> !!!! \	SUMMAR			REPORT DATE
		(continued)			Sunday	8-Nov-98
SPE G NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE	INCORPORATED	O TAT-TOB		COMMENTS	
Refe	er to daily cost summary sheets attache	d.				
			•			
PROJE	ECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1_1_	54	55	21-Sep-98	
RENTAL CAR		<u> </u>	16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	54	55	8-Sep-98	
PORTABLE TOILET		1	55	56	8-Sep-98	
RADIOS		3	153	156	8-Sep-98	
ORGANIC VAPOR MONITOR		1	51	52	8-Sep-98	
BOX TRUCK		1	51	52	8-Sep-98	
MINI EXCAVATOR		11	47	48	14-Sep-98	
REMINI EXCAVATOR			6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSOR			3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK		Ţ	1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	41	42	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	26	27	12-Oct-98	
RENTAL PUMP			12	12		
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		<del>                                     </del>				<del>                                     </del>
<u> </u>		<del> </del> -				

OVES		QUA	LITY CONTI	ROL REPORT		REPORT DATE
					Sunday	8-Nov-98
		LOCATION	ON AND DESCRIPTION	ON OF DEFICIENCIES		
			faterials, Equipment, Safety, a	ind/or Workmanship)		
	Nothing to report					
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	ł					
	<b>!</b> }					
CHANGE I	N CONTRACT:	CHANGE ORDER	EXTRA WOR	K 🗍 OTHER		
<del></del>	<del></del>	<u>.                                    </u>	<del></del>		T	
BID ITEM_	<u> </u>	DESCRIPTION OF C	HANGE	· · · · · · · · · · · · · · · · · · ·	QUANTITY CHANGE	NEW TOTAL
	<u> </u>			<u>-</u>		
· · · · ·				<u>.</u>		
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		<u></u>	··			
				<u> </u>		
REMARKS:	(INCLUDE DIRECTIONS F	FROM CLIENT, VISITORS, COMPLIANCE NO	OTICES, SAFETY INSPECTIO	NS, AND OTHER PERTINENT	INFORMATION)	· · · · · · · · · · · · · · · · · · ·
					`	<u> </u>
Attach		Tallanta Cartata Mantina				
Attachm		Tailgate Safety Meeting Quality Control Report				
		)				
	<i>(</i> /	110		•		
	_ /	COLUMN TO THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STAT				
(VTS)	Joe Ar	nderson/Richard Scott				
	WESTINGHOUSE I	REMEDIATION SERVICES, INC.		RADIAN	INTERNATIONAL, LLC	

(VRS)			DAILY PI	RODU	CTION	REPORT		Monday	REPORT DATE
DEL R	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	te-		REPORT NO.	- 34104-33
	4412-98-4029	,			n, Texas			53	
WRS JOB NO. CLIENT NAME	<del> </del>	<u> </u>			PROJECT MANAG	1 ER		- 33	
	atural Resource Conserva	ition Comn	nission			Joe Anderso	n/Richard So	cott	
WEATHER-AM	Cloudy				TEMPERATURE-A	м	60's		
WEATHER-PM	Cloudy				TEMPERATURE-P		70's		
	WESTINGHOUSE / SUBCONTRACTOR	WORKFORCE			<del></del>		TION AND DESCRIE WORK PERFORM		
NUMBER	TRADE	HOURS	EMPLOY	ÆR .			6:30 am cor	nducted safe	ty &
1	Project Manager	8	WRS		<u>production</u>	n meeting.			Ì
1	HS/QC Officer	8	wrs		Finished ti	he internal v	ault connec	tions (valves	s. fittings
1	Operator	11	WRS		and flow n		aut comico	tiono (varvoc	1111111111
	Contract Labor	22	Greenfield			,			1
·	Solidade Eabor			-	<u>Electrician</u>	<u>continuing</u>	pulling wire		
1	Operator		WRS		Began fina	ıl backfilling	operation.		
		·	· <del>-</del>	!	General cl	eanup of the	e site.		
					Site was c	locad for the	a day and all	WRS emplo	waas !
					left.	iosea ioi iiii	a uay anu an	I AAKO GIIIDIO	yees -
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	<del>                                     </del>					PER	DIEM TOTA	LS	[
							cluding weekend		
	<del></del>					USED TODAY	Jacob San Carlot	2	
				<u> </u>		PREVIOUS REPOR	T .	125	
						START OF PROJEC		127	
TOTAL WORK	HOURS ON JOB	1	WAS A JOB SAFETY M	EETING HEI	D THIS DATE?	OTAGE OF TROSE		LOST TIME ACCIDE	NTS THIS DATE?
SITE THIS DA		49	THE AUGUSTICATION	ECTING FIEL	D THO DATE		HERE MERE ANT	LOST TIME ACCIDE	AIS INSUALE
•	TOTAL OF WORK	2136.5	[]YES	рујио			[ ] YES	руј ио	
HOURS FROM PREVIOUS REPORT TOTAL WORK HOURS FROM		2100.0	IF "YES", ATTACH COS	Y OF MEETI	NG RECORD		IF "YES" ATTACH (	COMPLETED OSHA I	FORM
START OF PR		2185.5		IS REPORT				THIS REPORT	
PROJECT SAMPLE LOG									
	DESCRIPTION	SOIL	WIPE	CONCRET	WATER	OTHER		COMMENTS	
SA CO	ALLECTED THIS DATE:	<del></del>				<b> </b>		<u></u>	
PREVIOUS C	UMULATIVE TOTAL:							<del></del>	
TOTAL SAMP	LES COLLECTED:				<u></u>	<u> </u>	<u>·</u>		

### PROJECT QUANTITY SUMMARY

<u> </u>		(Please write in categories n	o specified)			Monday	9-Nov-98
	UNIT OF	QUANTITY	PRE	V <del>IQ</del> US	Ct	JRRENT PROJE	СТ
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	_
TRENCH EXCAVATED	FEET		1728			1,728	
TRENCH BACKFILLED	FEET		1139			1,139	
HDPE PIPE REMOVED	FEET		1,069			1,069	
VAULTS REMOVED	EACH		14	_		14	
WELLS INSTALLED	EACH		13			13	
HDPA PIPE INSTALLED	FEET		1405	<del></del>	<u> </u>	1,405	
VAULTS INSTALLED	EACH		21			21	
ELECTRICAL CONDUIT	FEET	-	1411			1,411	
WELL CUTTING\$	DRUM		96			96	
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			<u> </u>				T
PROJECT MATE	EDIAL LIST			PREVIOUS USE	TOTAL USE	REMAIN ON SITE	EST. REMOV
	ENAL LIST		(EACH)	(DAYS)	(DAYS)		DATE
PPE		<u> </u>	12 100	12 220	40.5	N/A	N/A
Cement (yards)			2 De 1	JA 20		N/A	N/A
DRUMS				86	86	N/A	N/A
BARRICADE TAPE		<del></del>		400	400	N/A	N/A
2" HDPE PIPE				1155	1155	N/A	N/A
PRE-CAST VAULTS	<del></del>	<del></del>	<del> </del>	21	21	N/A	N/A
EMBEDMENT SAND			<del>                                     </del>	·· 16	16	N/A	N/A
1" HDPE PIPE			<del> </del>	850	850	N/A	N/A
3" HDPE PIPE				250	250	N/A	N/A
		Crushed Rock	<del> </del>	4	4	N/A	N/A
					<u> </u>	N/A	N/A

WRS	PROJECT QUA	NTITY	SUMMAR	Y		REPORT DATE
		(continued)			Monday	9-Nov-98
SPE VG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE	INCORPORATED	) TRT-10B		COMMENTS	
	Refer to daily cost summary sheets attache	d.				
			[			
					•	
					•	
P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	55	56	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	55	56	8-Sep-98	
PORTABLE TOILET		1	- 55	56	8-Sep-98	
RADIOS		3	156	159	8-Sep-98	•
ORGANIC VAPOR MON	litor	1	52	53	8-Sep-98	
BOX TRUCK		1	52	53	8-Sep-98	
MÍNI EXCAVATOR		1	48	49	14-Sep-98	
RE MINI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK			1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	41	42	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	26	27	12-Oct-98	
RENTAL PUMP			12	12		
						,
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	QUALITY CONTROL REPOR	T	REPORT DATE
		Monday	9-Nov-98
	LOCATION AND DESCRIPTION OF DESICIENCIES	· · · · · · · · · · · · · · · · · · ·	
	(Materials, Equipment, Safety, and/or Workmanship)		
	Nothing to report.		
		· · · · · · · · · · · · · · · · · · ·	
CHANGE IN	N CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
BID ITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
	•		
DEMARKS:			<del></del>
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINE	11 INFORMATION)	
	$\cdot$		
		<del></del>	<u> </u>
Attachm	nents: WRS Tailgate Safety Meeting WRS Quality Control Report		
	Leads.		
(WITS)	Joe Anderson/Richard Scott		
S	WESTINGHOUSE REMEDIATION SERVICES, INC. RADIA	N INTERNATIONAL, LLC	
<del></del>			

WRS			DAILY P	RODU	CTION	REPORT	•		REPORT DATE	
								Tuesday	10-Nov-98	
<b>DELIT</b> RI	DER NO.		TITLE AND LOCATION	N	Sol-Lynn S	ite-		REPORT NO.		
WRS JOB NO.	4412-98-4029	00		Housto	n, Texas			54		
CLIENT NAME					PROJECT MANAG					
Texas Na	tural Resource Conserva	ation Comr	nission		Joe Anderson/Richard Scott					
WEATHER-AM		· · · · ·			TEMPERATURE-AM 60'S					
WEATHER-PM					TEMPERATURE-PM 70'S  LOCATION AND DESCRIPTION					
	WESTINGHOUSE / SUBCONTRACTO	K WORK-OKCE					WORK PERFORM			
NUMBER	TRADE	HOURS	EMPLO	OYER			6:30 am cor	nducted safe	ty &	
1	Project Manager	88	WRS		productio	n meeting.				
1	HS/QC Officer	8	WRS		Complete	d all necess:	arv welds on	the main lir	na pining	
1	Operator	11	WRS					testing on th		
1	Contract Labor	22	Greenfield			ee attachme		<u> </u>		
					Electrician	. continuina	pulling wire			
4	Operator		WRS		Licotriciai	reommanig	pulling wife	<u>*•</u>		
	Operator		****		Continued	l final cleant	ip around ar	nd inside all	vaults.	
······································					General ci	eanup of the	e site.		-	
		-				losed for the	e day and al	WRS emplo	oyees_	
					<u>left.</u>			•	H	
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						PER	DIEM TOTA	LS		
			""			(in	cluding weekend	is)		
						USED TODAY		2		
						PREVIOUS REPOR	т	127		
	1	1				START OF PROJEC	т	129		
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY	MEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?	
SITE THIS DAT	TE	49								
	TOTAL OF WORK  PREVIOUS REPORT	2185.5	[]YE\$	(x)			[ ] YES	рд ио		
	HOURS FROM	2.50.0	IF "YES", ATTACH CO	OPY OF MEETI	NG RECORD		IF "YES", ATTACH (	COMPLETED OSHA I	ORM	
START OF PRO		2234.5		THIS REPORT				THIS REPORT		
			PROJECT SA	AMPLE L	.og	-				
	DESCRIPTION	SOIL	WIPE	CONCRET	WATER	OTHER		COMMENTS		
SAM	LECTED THIS DATE:									
PREVIOUS CU	MULATIVE TOTAL:									
TOTAL SAMPL	ES COLLECTED:									

# WRS

### PROJECT QUANTITY SUMMARY

REPORT DATE

		(Please write in categories n	o specified)		<del></del>	Tuesday	10-Nov-98	
	UNIT OF	QUANTITY	PRE	VIOUS	С	URRENT PROJE	ст	
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL		
TRENCH EXCAVATED	FEET		1728			1,728	•	
TRENCH BACKFILLED	FEET		1139			1,139		
HDPE PIPE REMOVED	FEET		1,069			1,069		
VAULTS REMOVED	EACH		14	_	<u>.</u>	14		
WELLS INSTALLED	EACH		13			13		
HDPA PIPE INSTALLED	FEET		1405			1,405		
VAULTS INSTALLED	EACH		. 21			21		
ELECTRICAL CONDUIT	FEET		1411			1,411		
WELL CUTTINGS	DRUM		96			96		
<u> </u>						<del></del>		
		<u> </u>						
					_			
						·- <u>-</u>		
·						<u> </u>	· ·	
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL	
PROJECT MATE	RIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE	
PPE						N/A	N/A	
Cement (yards)				19	19	N/A	N/A	
DRUMS				86	86	N/A	N/A	
BARRICADE TAPE				- 400	400	N/A	N/A	
2" HDPE PIPE				1155	1155	N/A	N/A	
PRE-CAST VAULTS				21	21	N/A	N/A	
EMBEDMENT SAND				- 16	16	N/A	N/A	
1" HDPE PIPE				850	850	N/A	N/A	
3" HDPE PIPE		•		250	250	N/A	N/A	
		Crushed Rock		4	4	N/A	N/A	
· · · · · · · · · · · · · · · · · · ·						N/A	N/A	

(WRS)	PROJECT QUA	NTITY	SUMMAR	Y		REPORT DATE
	<b>T</b>	(continued)	<del></del>		Tuesday	10-Nov-98
SPEC G NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		BOLAIC		COMMENTS	
	Refer to daily cost summary sheets attache	d.				
F	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	56	57	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	56	57	8-Sep-98	
PORTABLE TOILET	1	56	- 57	8-Sep-98	-	
RADIOS	3	159	162	8-Sep-98		
ORGANIC VAPOR MON	1	53	54	8-Sep-98		
BOX TRUCK	1	53	54	8-Sep-98		
MINI EXCAVATOR		1	49	50	14-Sep-98	
RENT MINI EXCAVA	TOR		6	6	21-Sep-98	28-Sep-98
REN COMPRESSO			3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK			1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	42	43	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	27	28	12-Oct-98	
RENTAL PUMP			12	12		
				· · · · · ·		
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					4.	

WRS	QUALITY CONTROL F	REPORT		REPORT DAT
<u> </u>			Tuesday	10-Nov-98
	LOCATION AND DESCRIPTION OF DE	FICIENCIES		
	(Materials, Equipment, Safety, and/or Workm	anship)		
J	Nothing to report.			
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L			<u>-</u>	
ANGE IN C	CONTRACT: CHANGE ORDER EXTRA WORK [	OTHER		
) ITEM	DESCRIPTION OF CHANGE	QUANTI	TY CHANGE	NEW TOTA
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			<u> </u>	
MARKS: (II	NCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OT	HER PERTINENT INFORMATION)		
		•		
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		•		
ttachmer	nts: WRS Tailgate Safety Meeting			
ttaci iii ei	WRS Quality Control Report			·
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	1 12	-		
	July July			
19725	Joe Anderson/Richard Scott			
シャ	WESTINGHOUSE REMEDIATION SERVICES, INC.	RADIAN INTERNATION	ONAL, LLC	

### WRS INFRASTRUCTURE ENVIRONMENT, INC.

		Hydrostatic	Test Log					
CONTRACTI		TITLE AND LOCATION		Date:				
JOB NO. 4412-	98-4029	Sol Lynn/Industri	ial Transformer	Nov.	10, 1998			
CLIENT NAME		<u></u>	PROJECT MANAGER					
Texas Natura	al Resource Conserva	ation Commission	Joe Anderson/		xott			
WEATHER CONDITI	ons Sunny		TEMPERATURE	80's				
		PIPE INFORMATI	 ON					
Pipe	<b>⊠</b> HDPE	□ PVC	STEEL	П с	OTHER			
Туре								
Diameter		☑ 3"	4"	<u></u> 6"	<b>⊠</b> OTHER			
Test Location	on (ref. drawing)	<del></del>	nt(3") and Leak Det e System at Tie-in.		Main Line			
Test I	Pressur <u>e</u>	5 (PSI)	Pipe Length	entire	system			
<u>Time (10</u>	minutes max.)	Pressure (gauge	<u>reading)</u>		Comments			
Duel Contain	ment 3"		(psi)					
Leak Detection	on A, B, C, D		(psi)					
			(psi)					
			(psi)					
			(psi)					
			(psi)					
			(psi)					
	ration: 10 minutes s	et & 10 minutes test	Pressure Defic	ciencies:	None			
Comments (	list deficiencies, repairs	, etc.) Test or	ompleted no proble	ms				
			<u></u>					
		<u> </u>	<del></del>					

Signature: WRS QA/QC

Signature: Radian Representative

IVRS			DAILY P	RODU	ICTION	REPORT			REPORT DATE	
DEL NOR	DER NO.		TITLE AND LOCATION		Sol-Lynn Si	ite.		Wednesday REPORT NO.	11-Nov-98	
		•	, , , , , , , , , , , , , , , , , , ,		•	· <del></del> -	•		İ	
WRS JOB NO.	4412-98-4029	0			on, Texas		55			
CLIENT NAME	tural Describes Consonia	tion Com	minaian		PROJECT MANAGER  Joe Anderson/Richard Scott			·~#		
	tural Resource Conserva	tion Com	nission					OIL		
WEATHER-AM	Cloudy		<del></del>		TEMPERATURE-A					
WEATHER-PM	Cloudy				TEMPERATURE-P		70's			
	WESTINGHOUSE / SUBCONTRACTOR	R WORKFORCE					ION AND DESCRIF WORK PERFORME			
NUMBER	TRADE	HOURS	EMPLO	YER	WRS arriv	ed onsite @	6:30 am cor	nducted safe	ty &	
1	Project Manager	8	WRS		production	n meeting.				
	HS/QC Officer	8	WRS		Dozer arrived from Hertz and WRS began the final					
1	Operator	11	WRS					day the fiel		
								ıded. WRS i		
3;	Contract Labor	22	Greenfield					ould be allo		
					i ————	d or in the fie				
1	Operator		WRS		Electrician continuing pulling wire.					
	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		General cleanup of the site.					
					General Cleanup of the Site.					
					Site was c	losed for the	a day and all	WRS emplo	vees	
			i		left.		, <u>uu, u.,u u.,</u>	TITO CITIFIC	7000	
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		<u> </u>								
[			<u> </u>	_		PER	DIEM TOTA	LS		
		···				(inc	cluding weekend	ds)		
			<del> </del>		1			2	1	
<u> </u>	<del> </del>					USED TODAY				
<u> </u>		<u> </u>			<b>!</b> .	PREVIOUS REPOR	г	129		
Ĺ	1	1				START OF PROJEC	π	131		
TOTAL WORK	HOURS ON JOB		WAS A JOB SAFETY N	MEETING HEL	D THIS DATE?		WERE THERE ANY	LOST TIME ACCIDE	NTS THIS DATE?	
SITE THIS DAT	E	49	<u> </u>							
CUMULATIVE 1	TOTAL OF WORK		[] YES	[X] NO	•		[ ] YES	DX] NO		
HOURS FROM	PREVIOUS REPORT	2234.5	j			`				
TOTAL WORK	HOURS FROM		IF "YES", ATTACH CO	PY OF MEET	ING RECORD		IF "YES", ATTACH O	COMPLETED OSHA	ORM	
START OF PRO	DJECT	2283.5	тот	HIS REPORT			то	THIS REPORT	····	
<u> </u>			PROJECT SA			<i>-</i>	· · · · · · · · · · · · · · · · · · ·			
	DESCRIPTION	SOIL	WIPE	CONCRET	WATER	OTHER		COMMENTS		
SACCOL	LECTED THIS DATE:		<del> </del>		<del> </del>	<u> </u>	! 			
PREVIOUS CU	MULATIVE TOTAL:	<del></del>	<u> </u>		<del>                                     </del>	<del> </del>				
TOTAL SAMPL	ES COLLECTED:						<u> </u>			

### PROJECT QUANTITY SUMMARY

REPORT DATE

WRS	•	NOULUI QUA	REPORT DATE				
		(Please write in categories no	no specified)			Wednesday	11-Nov-98
	UNIT OF	QUANTITY	PRE	V <del>io</del> us	C	URRENT PROJE	ст
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		1728			1,728	
TRENCH BACKFILLED	FEET		1139			1,139	
HDPE PIPE REMOVED	FEET		1,069			1,069	
VAULTS REMOVED	EACH		14			14	
WELLS INSTALLED	EACH		13		13		
HDPA PIPE INSTALLED	FEET		1405		1,405		
VAULTS INSTALLED	EACH		21			21	
ELECTRICAL CONDUIT	FEET		1411			1,411	
WELL CUTTINGS	DRUM		96			96	<del></del>
· -	· ·					<u> </u>	
						*	
				-			
						<del> </del>	<del></del> _
	<del>-   -</del>						
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOV
PROJECT MATE	RIAL LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE						N/A	N/A
Cement (yards)	<u> </u>			20	20	N/A	N/A
DRUMS	<del></del>			86	86	N/A	N/A
BARRICADE TAPE			<u></u>	- 400	400	N/A	N/A
2" HDPE PIPE				1155	1155	N/A	N/A
PRE-CAST VAULTS				21	21	N/A	N/A
EMBEDMENT SAND	· <del></del>			16	16	N/A	N/A
1" HDPE PIPE				850	850	N/A	N/A
3" HDPE PIPE				250	250	N/A	N/A
3 HDFL FIFE		Crushed Rock	_	4	4	N/A	N/A
		Organica NOCA		<del>                                     </del>	<del></del> -	177	14/7

WRS	PROJECT	QUANTITY S	SUMMAR	Y		REPORT DATE
		(continued)			Wednesday	11-Nov-98
SPE G NO.	EQUIPMENT / MATERIAL RECEIVED TODA	·	ВОГИТ		COMMENTS	
	Refer to daily cost summary sheets a	ttached.	ļ			
<u></u>	<u>.</u>		ļ			
<u></u>			ļ			
	- <b>-</b>					_
		<u> </u>	<del></del> γ		· · · · · · · · · · · · · · · · · · ·	
	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
<del>,,</del>		(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	57	58	21-Sep-98	
RENTAL CAR				16	8-Sep-98	28-Sep-98
OFFICE TRAILER	1	57	58	8-Sep-98	-	
PORTABLE TOILET	1	57	58	8-Sep-98		
RADIOS	3	162	165	8-Sep-98		
ORGANIC VAPOR M	1	54	55	8-Sep-98		
BOX TRUCK	1	54	55	8-Sep-98	- <del></del>	
MINI EXCAVATOR	1	50	51	14-Sep-98		
REI MINI EXCA		6	6	21-Sep-98	28-Sep-98	
RENTAL COMPRES	SOR		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRU	СК		1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	43	44	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	28	29	12-Oct-98	
RENTAL PUMP			12	12		
					i	
•						
			_			
			,			
			<u></u>			
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	QUALITY CONTROL REPORT		REPORT DATE
		Wednesday	11-Nov-98
	LOCATION AND DESCRIPTION OF DEFICIENCIES		
	(Materials, Equipment, Safety, and/or Workmanship)		7
	Nothing to report.		
		•	
		•	
·			
CHANGE II	CONTRACT: CHANGE ORDER EXTRA WORK OTHER		
	<del> </del>		
BID ITEM	DESCRIPTION OF CHANGE	QUANTITY CHANGE	NEW TOTAL
		<u> </u>	
			<del></del>
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, COMPLIANCE NOTICES, SAFETY INSPECTIONS, AND OTHER PERTINENT	NFORMATION)	
1,210 0 0 10 10 10 10 10 10 10 10 10 10 10			
			}
Attachm			
	WRS Quality Control Report		,
	1 Sister		
IVES	Joe Anderson/Richard Scott		
	WESTINGHOUSE REMEDIATION SERVICES, INC. RADIAN	INTERNATIONAL, LLC	

IVIS			DAILY PRO	DUCTION	REPORT			REPORT DATE			
	<u> </u>					····	Thursday	12-Nov-98			
DELIT	DER NO.		TITLE AND LOCATION	Sol-Lynn S	ite.	ı	REPORT NO.				
WRS JOB NO.	4412-98-4029	0	Hou	ston, Texas	Ì		56				
CLIENT NAME				PROJECT MANAG							
Texas Na	tural Resource Conserva	ation Comr	nission		Joe Anderson/Richard Scott						
WEATHER-AM	Cloudy			TEMPERATURE-	AM	60's					
WEATHER-PM				TEMPERATURE-F		70's	=				
	WESTINGHOUSE / SUBCONTRACTO	R WORKFORCE			LOCATION AND DESCRIPTION OF WORK PERFORMED						
NUMBER	TRADE	HOURS	EMPLOYER	WRS arriv	ed onsite @	6:30 am con	ducted safe	ty &			
1	Project Manager	8	WRS	productio	n meeting.						
1	HS/QC Officer	8	WRS	General cl	leanup and f	his is a rain	dav all work	came to			
1	Operator	10	WRS			rain and mu					
	Contract Labor	20	Greenfield					1			
•	· ·		O COMMON	[[		pulling wire	until noon t	then they			
				left for the	e day.			1			
1	Operator		WRS	Site was c	losed for the	e day and all	WRS emplo	vees			
				left.							
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		<u> </u>						4			
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					PER	DIEM TOTA	LS				
					(in	cluding weekend	ls)	j			
					USED TODAY		2				
<u> </u>				<del>-</del>	PREVIOUS REPOR	T	131	}			
					START OF PROJEC	`	133				
	1 1	1			START OF PROJEC						
SITE THIS DA	HOURS ON JOB	46	WAS A JOB SAFETY MEETING	HELD IMIS DATE?		WERE THERE ANY	LUST TIME ACCIDE	INIO IHIS VAIE?			
<u> </u>	TOTAL OF WORK	<del>                                     </del>	[]YES [X	I NO		[ ]YES	рд ио	Ì			
HOURS FROM	PREVIOUS REPORT	2283.5			•			ĺ			
TOTAL WORK	CHOURS FROM .		IF "YES", ATTACH COPY OF N	MEETING RECORD		IF "YES", ATTACH C	OMPLETED OSHA	FORM			
START OF PR	OJECT	2329.5	TO THIS REF	ORT		то	THIS REPORT	<del></del>			
1	•		PROJECT SAMPL	E LOG	-						
	DESCRIPTION	SOIL	WIPE CONC	RET WATER	OTHER		COMMENTS				
S COLLECTED THIS DATE:				<u></u> ,							
PREVIOUS CL	UMULATIVE TOTAL:				ļ						
TOTAL SAMP	LES COLLECTED:										

(William)		PROJECT QUA	NTITY S	SUMMAR	Y		REPORT DATE
		(Please write in categories no	specified)		Thursday 12-Nov-9		
	UNIT OF	QUANTITY	PRE	ZIOUS '	CL	JRRENT PROJEC	ст
DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL	·	TOTAL	
TRENCH EXCAVATED	FEET		1728		1,728		
TRENCH BACKFILLED	FEET		1139		1,139		
HDPE PIPE REMOVED	FEET		1,069			1,069	
VAULTS REMOVED	EACH		14			14	
WELLS INSTALLED	EACH		13			13	
HDPA PIPE INSTALLED	FEET		1405			1,405	
VAULTS INSTALLED	EACH		21			21	
ELECTRICAL CONDUIT	FEET		1411			1,411	
WELL CUTTINGS	DRUM		96			96	
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			· ·			<del>-</del>	
<u> </u>			•	,	· · · · · · · · · · · · · · · · · · ·	<del></del>	
<del> </del>			•				
						<del></del>	<del></del>
						<u> </u>	
						<del></del>	·
			LISED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOVAL
PROJECT MATERIAL	LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE			(2.0.1)	(SKI 6)	(5/11.0)	N/A	N/A
Cement (yards)				20	20	N/A	N/A
DRUMS		<u>-</u>		86	86	N/A	N/A
BARRICADE TAPE			<u>-</u>	- 400	400	N/A	N/A
2" HDPE PIPE			<del></del>	1155	1155	N/A	N/A
PRE-CAST VAULTS		· · · · · · · · · · · · · · · · · · ·		21	21	N/A	N/A
EMBEDMENT SAND	<u></u>			. 16	16	N/A	N/A
1" HDPE PIPE		<u> </u>		850	850	N/A	N/A
3" HDPE PIPE	<del></del>	· <del></del>		250	250	N/A	N/A
	<del></del>	Crushed Rock		4	4	N/A	N/A
	·					N/A	N/A

WRS	PROJECT QU	ANTITY	SUMMAR	Υ		REPORT DATE
		(continued)		_	Thursday	12-Nov-98
SPE VG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		BOLMI		COMMENTS	
	Refer to daily cost summary sheets attach	ed.				
						,
			;		<u> </u>	
					···-	
					_	
P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
	<u> </u>	(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK		1	58	59	21-Sep-98	
RENTAL CAR			16	16	. 8-Sep-98	28-Sep-98
OFFICE TRAILER			58	59	8-Sep-98	
PORTABLE TOILET			58	59	8-Sep-98	
RADIOS			165	168	8-Sep-98	
ORGANIC VAPOR MONITOR			55	56	8-Sep-98	
BOX TRUCK			55	56	8-Sep-98	
MINI EXCAVATOR			51	52	14-Sep-98	
REMINI EXCAVATOR			6	6	21-Sep-98	28-Sep-98
RENAL COMPRESSO	R		3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK			1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	44	45	23-Sep-98	
RENTAL MINI HOE			5	<b>^</b> 5	6-Oct-98	12-Oct-98
COMPACTOR		1	29	30	12-Oct-98	
RENTAL PUMP			12	12		
						·
<del></del>						

wes.		QUA	LITY CONTRO	L REPORT		REPORT DATE
	<u>.</u>				Thursday	12-Nov-98
		LOCATI	ON AND DESCRIPTION OF	DEFICIENCIES	. <del></del>	
		(A	Materials, Equipment, Safety, and/or V	Norkmanship)		
	Nothing to report.			,		
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	1					
CHANGE IN	N CONTRACT:	CHANGE ORDER	EXTRA WORK	OTHER _		<u></u>
up press		DESCRIPTION OF S	NIANOE		OHANTITY OUANGE	NOMEOTAL
ID ITEM		DESCRIPTION OF C	HANGE	<del>-</del>	QUANTITY CHANGE	NEW TOTAL
· · · · ·			· · · · · · · · · · · · · · · · · · ·			
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	1.		<u> </u>			
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						· · · · · · · · · · · · · · · · · · ·
REMARKS:	(INCLUDE DIRECTIONS FRO	M CLIENT, VISITORS, COMPLIANCE N	OTICES, SAFETY INSPECTIONS, A	ND OTHER PERTINENT IN	FORMATION)	
Attachm		gate Safety Meeting		•		
	WRS Qua	ality Control Report				
	10			, m.		
	L Sea		· · · · · · · · · · · · · · · · · · ·	<u> </u>		
(V7LS)		erson/Richard Scott	<del></del>			
	WESTINGHOUSE RE	MEDIATION SERVICES, INC.		RADIAN IN	ITERNATIONAL, LLC	

			DAILY P	RODU	CTION	REPORT		<u> </u>	REPORT DATE
IVRS	·				•			Friday	13-Nov-98
DELP	DER NO.		TITLE AND LOCATION		Sol-Lynn S	it <del>o</del> -		REPORT NO.	
WRS JOB NO.	4412-98-4029	o		Houstor	n, Texas			57	
CLIENT NAME					PROJECT MANAG				
Texas Na	atural Resource Conserva	ation Comn	nission			Joe Anderso	n/Richard So	cott	
WEATHER-AM		<u> </u>	· · · · · · · · · · · · · · · · · · ·		TEMPERATURE-4		60's		
WEATHER-PM	Rain WESTINGHOUSE / SUBCONTRACTOR	WORKEORCE	<del></del> -		TEMPERATURE-F		70's	PTION	
	WEST MOTIOUSE / SUBCONTINCTOR	THOMA-ONCE		OF WORK PERFORMED					
NUMBER	TRADE	HOURS	EMPLO	YER	RAIN DAY	NO WORK	AT THE SITE	WAS CON	DUCTED.
1	Project Manager		WRS			٠			
1	HS/QC Officer		WRS						1
1	Operator		WRS						-
	Contract Labor		Greenfield						
· ·	00.1304 = 2301								1 1
1	Operator		WRS			•			
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		<u> </u>							
	·		<u> </u>			PER	DIEM TOTA	ls.	
						<b>]</b> '	cluding weekend		ļ
			<del></del> -			USED TODAY		2	
						PREVIOUS REPOR	т	133	
	1	1				START OF PROJEC	т	135	ŧ
TOTAL WORK	HOURS ON JOB	<u> </u>	WAS A JOB SAFETY N	AEETING HELI	D THIS DATE?	<u></u>	WERE THERE ANY		ENTS THIS DATE?
SITE THIS DAT	TE								
	TOTAL OF WORK	2329.5	[] YE\$	DN [X]			[ ]YES	рд ио	
<del></del>	PREVIOUS REPORT	2029.0	IF "YES", ATTACH CO	PY OF MEETI	NG RECORD		IF "YES", ATTACH (	COMPLETED OSHA	FORM
START OF PR		2329.5		HIS REPORT				THIS REPORT	
			PROJECT SA	MPIFI	OG	-			
	DESCRIPTION	SOIL	WIPE	CONCRET	WATER	OTHER		COMMENTS	
SA CO	LLECTED THIS DATE:								
PREVIOUS CU	IMULATIVE TOTAL:								
TOTAL SAMPL	LES COLLECTED:								

N/A

N/A

#### PROJECT QUANTITY SUMMARY REPORT DATE **Friday** 13-Nov-98 (Please write in categories no specified) UNIT OF QUANTITY **PREVIOUS CURRENT PROJECT** DESCRIPTION MEASURE THIS DATE **CUMULATIVE TOTAL** TOTAL FEET 1728 1,728 TRENCH EXCAVATED **FEET** 1139 1,139 TRENCH BACKFILLED 1,069 HDPE PIPE REMOVED **FEET** 1,069 EACH 14 14 VAULTS REMOVED EACH 13 WELLS INSTALLED 13 HDPA PIPE INSTALLED **FEET** 1405 1.405 EACH 21 VAULTS INSTALLED 21 1411 **FEET** 1,411 ELECTRICAL CONDUIT DRUM 96 96 WELL CUTTINGS USED TODAY PREVIOUS USE EST. REMOVAL **TOTAL USE** REMAIN ON PROJECT MATERIAL LIST (EACH) (DAYS) (DAYS) SITE DATE PPE N/A N/A 20 20 N/A N/A Cement (yards) DRUMS N/A 86 86 N/A BARRICADE TAPE 400 400 N/A N/A 2" HDPE PIPE N/A 1155 1155 N/A PRE-CAST VAULTS N/A 21 21 N/A EMBEDMENT SAND 16 16 N/A N/A 1" HDPE PIPE 850 N/A 850 N/A 3" HDPE PIPE N/A 250 250 N/A **Crushed Rock** N/A 4 4 N/A

WRS	PROJECT QUANTITY SUMMARY						
	<del></del>	(continued)	<del></del> -		13-Nov-98		
SPE VG NO.	EQUIPMENT / MATERIAL RECEIVED TODAY TO BE		BOLME		COMMENTS		
	Refer to daily cost summary sheets attache	d.					
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			·····				
ī	PROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL	
	·	(EACH)	(DAYS)	(DAYS)	DATE	DATE	
CREW TRUCK		1	59	60	21-Sep-98		
RENTAL CAR			16	16	8-Sep-98	28-Sep-98	
OFFICE TRAILER		1	59	60	8-Sep-98		
PORTABLE TOILET	<u> </u>	1	59	60	8-Sep-98		
RADIOS	· 	3	168	171	8-Sep-98		
ORGANIC VAPOR MO	NITOR	1	56	57	8-Sep-98		
BOX TRUCK		1	56	57	8-Sep-98		
MINI EXCAVATOR		1	52	53	14-Sep-98		
REMMINI EXCAVA	ATOR		6	6	21-Sep-98	28-Sep-98	
RENTAL COMPRESSO	PR		3	3	21-Sep-98	24-Sep-98	
RENTAL DUMP TRUCK	<		1	1	15-Sep-98	15-Sep-98	
RENTAL BACKHOE		1	45	46	23-Sep-98		
RENTAL MINI HOE		,	5	5	6-Oct-98	12-Oct-98	
COMPACTOR		1 .	30	31	12-Oct-98		
RENTAL PUMP			12	12			
·							
			·				
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			REPORT DATE			
					Friday	13-Nov-98
		LOCATION AN	D DESCRIPTION OF	DEFICIENCIES		
		(Materials, I	Equipment, Safety, and/or Wo	orkmanship)		
	Nothing to report.					
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ı						
					·	<del></del>
CHANGE IN	CONTRACT: CHANGE	ORDER	EXTRA WORK	OTHER		
BID ITEM	DESCR	IPTION OF CHANGE			QUANTITY CHANGE	NEW TOTAL
		·- <u>-</u>	<u> </u>			
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			<del></del>			
		<del></del>				<del></del>
REMARKS:	(INCLUDE DIRECTIONS FROM CLIENT, VISITORS, CO	OMPLIANCE NOTICES, S	AFETY INSPECTIONS, AND	OTHER PERTINENT IN	NFORMATION)	
					•	
						:
Attachme	ents: WRS Tailgate Safety Meetin	· · · · · · · · · · · · · · · · · · ·				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	WRS Quality Control Report					
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	~ )			_		i
	Joe Anderson/Richard	Scott				
	WESTINGHOUSE REMEDIATION SERV			RADIAN I	NTERNATIONAL, LLC	

			DAILY P	Udos	CTION F	REPORT			REPORT DATE	
3								Monday	16-Nov-68	
DELVERY ORD	DER NO.		TITLE AND LOCATION	;	Sol-Lynn Si	te	(	REPORT NO.	.	
WRS JOB NO.	4412-98-4029	<b>X</b> O		Houston	on, Texas			58		
CLENT NAME	d and December Occasion.	ation Open		ŀ	PROJECT MANAG		- Michael Co	add.	ļ	
	itural Resource Conserv	ation Comi	IIISSION		Joe Anderson/Richard Scott					
WEATHERAM			<u> </u>		TEMPERATURE-A		70's			
WEATHER-PM	SUNTY WESTINGHOUSE / SUBCONTRACTO	NO WORKEDERCE		<u>_</u>	TEMPERATURE-P		ION AND DESCRI	PTION		
					OF, WORK PERFORMED					
NUMBER	TRADE	HOURS	EMPLOY			te cleanup a			he	
1	Project Manager	8	WRS		<u>manhole li</u>	ds and final	cleaning of	all vaults.		
1	HS/QC Officer	8	WRS		WPS Infor	med Radian	that water v	wae numnin	aun I	
1	Operator	10	WRS			e vaults wh				
	Contract Lebor	10	Greenfield			lso we infor				
•	CARBOA CARO		Godinad			f the well ca				
						go into the	well and co	<u>uld cause d</u>	amage to	
<u> </u>	Operator		WRS		the pumps	<b>.</b>				
					Electrician	onsite pulli	ing signal w	rire.		
							-			
<u>.</u>					Site close	d and secur	ed for the d	ay.		
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						PER	DIEM TOTA	ALS		
						· (in	cluding weekend	ls)		
						USED TODAY		2		
						PREVIOUS REPOR	т	135		
						START OF PROJEC	<del></del>	137		
TOTAL WORK	HOURS ON JOB	<del>                                     </del>	WAS A JOB SAFETY I	ACETING HEL	D THIS DATE?			LOST TIME ACCID	ENTS THIS DATE?	
SITE THIS DAT	TE	36	j							
	TOTAL OF WORK	0004.5	[]YE8	[X] NO			[ ] YEB	D2 NO		
	PREVIOUS REPORT	2234.5	<b></b>							
BTART OF PROJECT 2365,5		F YES", ATTACH COL	PY OF MEETIN HIS REEPORT	KG RECORD		•	COMPLETED OSHA THIS REPORT	PORM		
			<del>'</del>							
	DESCRIPTION	SOIL	PROJECT SA	WPLE L		OTHER		COMMENTS		
****	LLECTED THIS DATE:				THAT LET	<u> </u>			•	
			<del>                                     </del>							
	UMULATIVE TOTAL:	<del>                                     </del>	<del> </del>	<del></del>		<del> </del>				
IOTAL SAMP	LES COLLECTED:	1	L		l	<u> </u>	L			

(Please write in categories no specified)

Monday

(W/KS)

### **PROJECT QUANTITY SUMMARY**

REPORT DATE

15-Nov-81

`	UNIT OF	QUANTITY	PRE	MOUS	α	RRENT PROJEC	ा
DESCRIPTION	MEASURE	THIS DATE	COMMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		1728			1,728	
TRENCH BACKFILLED	FEET	,	1139		-	1,139	
HOPE PIPE REMOVED	FEET		1,069			1,089	
VAULTS REMOVED	EACH		14			14	
WELLS INSTALLED	EACH		13		· 	13	,
HDPA PIPE INSTALLED	FEET		1405		-	1,405	·
VALALTS INSTALLED	EACH		21			21	
ELECTRICAL CONDUIT	FEET		1411			1,411	
WELL CUTTINGS	DRUM		96		_	98	
				,			
			<u></u>		-		
			· · · · · · · · · · · · · · · · · · ·		. <u>.</u>		<u> </u>
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						<del></del>	<del> </del>
						<del></del> * .	
			USED TODAY	PREVIOUS USE	TOTAL USE	REMAIN ON	EST. REMOV
PROJECT MATERIAL	LIST		(EACH)	(DAYS)	(DAYS)	SITE	DATE
PPE			<b></b>			N/A	N/A
Cement (yards)				20	20	N/A	N/A
DRUMS				86	86	N/A	N/A
BARRICADE TAPE				400	400	N/A	N/A
2" HDPE PIPE				1155	1155	N/A	N/A
PRE-CAST VAULTS				21	21	N/A	N/A
EMBEDMENT SAND				16	16	N/A	N/A
1° HDPE PIPE				850	850	N/A	N/A
3" HDPE PIPE				250	250	N/A	N/A
		Crushed Rock		4	4	N/A	N/A
				1		N/A	N/A

	PROJECT QUANTITY SUMMARY						
		(continued)			Monday	15-Nov-95	
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۶	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL	
		(EACH)	(DAYS)	(DAYS)	DATE	DATE	
CREWTRUCK		1	60	61	21-Sep-98		
RENTAL CAR			16	16	8-Sep-98	28-Sep-98	
OFFICE TRAILER		1	60	61	8-Sep-98		
PORTABLE TOILET		1	60	61	8-Sep-98		
RADIOS		3	171	174	8-Sep-98		
ORGANIC VAPOR MOI	MITOP	1	57	58	8-Sep-98		
· · · · · · · · · · · · · · · · · · ·	TION		57	58			
BOX TRUCK		1			8-Sep-98		
MINI EXCAVATOR		1 1	53	54	14-Sep-98		
REI MINI EXCAVA		<u> </u>	6	6	21-Sep-98	26-Sep-98	
RENTAL COMPRESSO		<u> </u>	3	3	21-Sep-98	24-Sep-98	
RENTAL DUMP TRUCK	<u> </u>		1	1	15-Sep-98	15-Sep-96	
RENTAL BACKHOE		1	47	48	23-Sep-98		
RENTAL MINI HOE	·	<u> </u>	5	5	6-Oct-98	12-Oct-96_	
COMPACTOR		1	31	32	12-Oct-98		
RENTAL PUMP		ļ	12	12			
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WEATHER-AM	Sunny				TEMPERATURE-A	<b>u</b> .	60's		
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1	Operator	10	WRS		<u> </u>	Oncorp pun	mg organic (	<u></u>	1
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### PROJECT QUANTITY SUMMARY

REPORT DATE

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DESCRIPTION	MEASURE	THIS DATE	CUMULA	TIVE TOTAL		TOTAL	
TRENCH EXCAVATED	FEET		1728			1,728	
TRIENCH BACKFILLED	FEET		1139			1,139	<u>.</u>
IDPE PIPE REMOVED	FEET		1,069			1,089	
VAULTS REMOVED	EACH		14	. =	· · · ·	14	
MELLS INSTALLED	EACH	·	13			13	
HDPA PIPE INSTALLED	FEET		1405	<u> </u>		1,405	
VAULTS INSTALLED	EACH	· · · · · · · · · · · · · · · · · · ·	21			21	···
ELECTRICAL CONDUIT	FEET		1411			1,411	
WELL CUTTINGS	DRUM	<del></del>	96			98	
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PPE	· <del></del>					N/A	N/A
Cement (yards)				20	20	N/A	N/A
DRUMS				86	86	N/A	N/A
BARRICADE TAPE				400	400	N/A	N/A
7' HDPE PIPE				1155	1156	N/A	N/A
PRE-CAST VAULTS				21	21	N/A	N/A
EMBEDMENT SAND				16	16	N/A	N/A
I" HOPE PIPE		,		850	850	N/A	N/A
T HOPE PIPE				250	250	N/A	N/A
		Crushed Rock		4	4	N/A	N/A
						N/A	N/A

117/S		QUAI	LITY CONTROL	REPORT		REPORT DATE
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	WESTINGHOUSE RE	EMEDIATION SERVICES, INC.		RADIAN II	NTERNATIONAL, LLC	

PROJECT QUANTITY SUMMARY						REPORT DATE
	(continued)			Tuesday		16-Nov-66
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<u> </u>	Refer to daily cost summary sheets attached.					
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P	ROJECT EQUIPMENT LIST	USED TODAY	PREVIOUS USE	TOTAL USE	ARRIVAL	REMOVAL
	<u> </u>	(EACH)	(DAYS)	(DAYS)	DATE	DATE
CREW TRUCK	<u></u>	1	61	62	21-Sep-98	
RENTAL CAR			16	16	8-Sep-98	28-Sep-98
OFFICE TRAILER		1	61	62	8-Sep-98	
PORTABLE TOILET		1	61	62	8-Sep-98	
RADIOS		3	174	177	8-Sep-98	
DRGANIC VAPOR MONITOR		1 .	58	59	8-Sep-98	
BOXTRUCK		1	58	59	8-Sep-98	
MINI EXCAVATOR		1	54	55	14-Sep-98	
RENTAL MINI EXCAVATOR			6	6	21-Sep-98	28-Sep-98
RENTAL COMPRESSOR		<u> </u>	3	3	21-Sep-98	24-Sep-98
RENTAL DUMP TRUCK			1	1	15-Sep-98	15-Sep-98
RENTAL BACKHOE		1	48	49	23-Sep-98	
RENTAL MINI HOE			5	5	6-Oct-98	12-Oct-98
COMPACTOR		1	32	33	12-Oct-98	,
RENTAL PUMP			12	12	,	
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APPENDIX E Analytical Data (Not Applicable)



APPENDIX F
Data Validation Reports
(Not Applicable)



Appendix © Detail Tratiment System Operational Procedures

# OPERATIONS AND MAINTENANCE MANUAL INDUSTRIAL TRANSFORMER SITE Houston, Texas

#### 1.0 INTRODUCTION

The Industrial Transformer Superfund (ITS) Site groundwater treatment system has been designed and constructed to meet the requirements specified in Radian Corporation's "Industrial Transformer Superfund Site Groundwater Remediation Design Technical Specifications, Final Design Package", dated June, 1993. The groundwater treatment system consists of extraction wells equipped with submersible pumps, recharge wells, well discharge and recharge piping, storage tanks, iron filters, an air stripper, liquid and vapor phase activated carbon filters, and ancillary equipment. In addition, groundwater monitoring wells installed at the site by others in previous projects are utilized in monitoring the system's performance. The locations of the major system components are shown in Sheet Nos. 3 through 7 of the as-built system drawings included in Appendix I. As-built surveys of the site are included in Appendix J, which include the locations and top of casing elevations of the monitoring wells. A groundwater treatment system process flow diagram indicating the relative location of all system mechanical components on the Treatment System Pad is provided on sheet No. 9 of Appendix I.

The groundwater treatment system has been designed and constructed to treat a maximum of approximately 85,200 gallons per day of chemically-impacted groundwater. A mass balance of the system under this loading is provided in Sheet No. 10 of Appendix I. The system was designed and constructed, and will be operated, to comply with the codes and standards listed in Table 1-1. Table 1-2 includes a list of references used in preparing this manual.

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#### TABLE 1-1

## LIST OF CODES AND STANDARDS FOR DESIGN AND CONSTRUCTION OF GROUNDWATER TREATMENT SYSTEM

#### ITS Site Houston, Texas

National Electrical Code - NFPA 70, 1993 Edition, National Fire Protection Association (NFPA)

Electrical Code, City of Houston, 1993 Edition, International Conference of Building Officials (ICBO)

<u>Uniform Plumbing Code, 1991 Edition,</u> International Association of Plumbing and Mechanical Officials (IAPMO)

Plumbing Code, City of Houston, 1991 Edition, International Conference of Building Officials (ICBO)

Uniform Building Code, 1991 Edition, International Conference of Building Officials

<u>Uniform Building Code, 1991 Edition, City of Houston Amendments, International Conference</u> of Building Officials (ICBO)

ASTM Standards in Building Codes, 31st Edition, 1994, American Society for Testing and Materials (ASTM)

Fire Code City of Houston, Texas, Adopted November 21, 1973 by Houston City Council

#### TABLE 1-2

#### LIST OF REFERENCES

#### ITS Site Houston, Texas

- "Industrial Transformer Superfund Site Groundwater Remediation Design Technical Specifications, Final Design Package" Radian Corporation, June, 1992.
- "Site Management Plan, Industrial Transformer Superfund Site, Houston, Texas", Southwestern Laboratories, Inc., February, 1993.
- "Health and Safety Plan, Industrial Transformer Superfund Site, Houston, Texas", Southwestern Laboratories, Inc., November, 1992.
- "Quality Assurance/Quality Control Plan, Industrial Transformer Superfund Site, Houston, Texas", Southwestern Laboratories, Inc., 1992.
- "Groundwater Sampling and Analysis Plan, Industrial Transformer Superfund Site, Houston, Texas", Southwestern Laboratories, Inc., May, 1993.
- "Remedial Design Sampling Report: Industrial Transformer Superfund Site", Radian Corporation, 1991.

#### 2.0 SYSTEM START-UP PROCEDURES

The treatment system is fully automated and is controlled by a programmable controller (PLC) equipped with a power supply module, a central processing unit (CPU), and input/output (I/O) modules. The programmable controller manufacturer's User's Guide is included in Appendix E and a computer ladder diagram for the controller is included in Appendix F. The PLC is mounted in the treatment system control panel located in the Motor Control Center (MCC) Building. The system control panel layout is shown on Sheet No. 25 in Appendix I. The location of the system control panel in the MCC Building, and the MCC Building's location on the Treatment System Pad are shown in Sheet No. 7 of Appendix I.

The treatment system is activated by turning the "Control Power" on/off switch, located in the lower right hand corner of the system control panel to the "on" position. The individual component controls on the system control panel should all be placed on "auto" or "run". The redundant components, such as pumps and blowers, automatically alternate to ensure even wear. Prior to start-up, check the breaker lights to the left of the control panel. There are two breaker light colors; red and green. Red lights indicate that the system components are energized. Green lights indicate that the system components are activated (i.e. the components are currently operating and in use). The three extraction well breakers (K11, K12, and K13), which are located on the right side of the breaker panel, should also be engaged. Power to the individual wells is controlled 1.) at the wellhead or remote control panel for the individual well (well SE-1, SE-2, SZE-5 control panels are located remotely from their respective wells, just outside of the northeast corner of the Treatment System Pad, as shown in Sheet No. 7 of Appendix I); or 2.) at the system control panel "Control Power" switch in the MCC Building. In the wellhead and remote pump control panels, three (3) settings (hand, off, auto) are available. Each operational well is left on "auto" at all times except during sampling events, when the "hand" setting is used if the system is cycled off. If the system is drained to perform maintenance, follow the startup procedures detailed in Section 2.2 of the Treatment System Manufacturer's (Clearwater Treatment Systems, Inc., Clearwater) Instruction Manual, included in Appendix C.

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#### 3.0 NORMAL OPERATING PROCEDURES

#### 3.1 System Check List Procedure

The System Check List Procedure will be conducted at least once each week by the Operator to document the operational status of the treatment system and its component equipment, and to determine if system maintenance is required. The results of the System Check List Procedure will be recorded on a Treatment System Data Sheet, a copy of which is included in Appendix A. Any inoperable equipment detected during the System Check List Procedure shall be replaced in accordance with the manufacturer's specifications. Appendix C contains the Treatment System Manufacturer's Instruction manual. Appendix E includes manuals and documentation for major ancillary components of the system and Appendix D includes lists of spare parts and special tools to be maintained onsite to allow for expedited repair of normal and expected equipment problems over the life of the treatment project. The Operator is responsible for maintaining the items on the Spare Parts and Special Tools Lists (Appendix D) onsite or in dedicated field vehicles at all times and for replacing all defective parts. The weekly system Check List Procedure is outlined in Sections 3.1.1 through 3.1.8.

### 3.1.1 <u>Lamp Test</u>

The purpose of the Lamp Test is to ensure that none of the system control panel status indicator lights are burned out. Conduct the Lamp Test by pressing the "Lamp Test" button on the system control panel. All of the lamp bulbs should be illuminated. Replace any bulb which is not functioning. The results of the test and any lamps replaced will be documented on the Treatment System Data Sheet.

#### 3.1.2 System Control Panel Status Check

Check the status of the active components using the system control panel status indicator lights, and record their conditions on the Treatment System Data Sheet. Each of the active component control status indicators lights and the "Low Level" control lights for the untreated water storage tank (T-100), the air stripper (AS-100), and the treated water storage tank (T-102) should be illuminated during normal operations. The iron filter system (LF-101 A&B) backwashes every 23.5 operating hours. Just prior to backwashing, the red "Iron Filter Backwash" light on the

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control panel will begin flashing. When the light stops flashing and is continuously illuminated, the system has shut down and begun to backwash the iron filters. The "Iron Filter Backwash" light will turn off and the system will restart automatically upon completion.

#### 3.1.3 Tank Level Status Check and Gauging

Record fluid levels in the stormwater storage tank (T-105), untreated water storage tank (T-100), treated water storage tank (T-102), and acid storage tank (T-101) on the Treatment System Data Sheet by using the gauges on the tank walls. If the water level in the stormwater storage tank (T-105) is within 12 inches from the top of the tank, water will drain through the overflow line into the untreated water storage tank (T-100). In addition to this, there is an equalization line located approximately five inches above the bottom of tanks T-105 and T-100 that can be opened to provide additional storage capacity during heavy rainfall events. However, this line should be left in the closed position unless heavy rainfall is anticipated for the upcoming week and the overflow line is not functional. Record the flow volume from the extraction well flow totalizer (FT 102), located on the northern edge of the Treatment System Pad, on the Treatment System Data Sheet and calculate the total volume transferred for the period from current and previous readings. The hundreds, thousands, and millions places are read from the digital totalizer display in the center of the meter. The tens and ones places are read from the red analog dial. Use a stop watch and the flow totalizer to measure the flow rated and record on the Treatment System Data Sheet.

The treatment system is activated by the level controls in the untreated water storage tank (T-100), the air stripper (AS-100), and the treated water storage tank (T-102). The level controls in the untreated water storage tank (T-100) affect the system control panel level status indicator lights and the treatment system as follows:

• <u>Low level</u> - A low level condition in the untreated water storage tank occurs when the volume of water in the tank falls below approximately 2,000 gallons. This condition turns off the "Low Level" light on the system control panel, and will shut down the treatment plant while the extraction wells continue to supply water. The low level

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condition will not clear until a high level condition restarts the system at which time the "Low Level" light will come back on.

- <u>High level</u> A high level in the untreated water storage tank will switch on the "High Level" light on the system control panel and will start the untreated water transfer pumps (P-100A & B). The high level condition will be cleared when the fluid level falls below the high level float switch which will turn the "High Level" light off. The high level condition is triggered when the volume in the untreated water storage tank is approximately 5,000 gallons.
- High-High level A high-high condition will switch on the "High-High Level" light on the system control panel and will shut down the system and the extraction wells and trigger an alarm on zone 8 of the main security system control panel, located in the MCC Building, which will then automatically call the Site Security Contractor (National Guardian). This condition will occur when the volume in the untreated water storage tank is approximately 8,000 gallons. Once the condition is alleviated, the "High-High Level" light will go off.

The level status indicator lights on the system control panel associated with the treated water storage tank (T-102) are affected identically to those associated with the untreated water storage tank (T-100) for low level, high level, and high-high level conditions. The level controls in the treated water storage tank affect the treatment system as follows for these conditions:

- <u>Low level</u> A low level condition in the treated water storage tank occurs when the volume falls below 2,000 gallons. This will shut down the treated water transfer pumps (P-102A & B).
- <u>High level</u> A high level condition occurs in the treated water storage tank when the volume is greater than 4,500 gallons. This activates the treated water transfer pumps (P-102A & B).
- <u>High-High level</u> A high-high level condition in the treated water storage tank sends an alarm on Zone 7 of the main security system control panel which then automatically calls the Site Security Contractor. The high-high level condition will clear when the fluid level in the treated water storage tank falls below the high-high level float switch. A high-high level condition in this tank may indicate clogged recharge filters (CF-100A, B, C, & D) or a faulty treated water transfer pump (P-102 A&B). Check the recharge filter pressure gauges to determine if the filters are clogged (refer to Section 3.1.5). If the filters are not clogged and are functioning properly, run a diagnostic test on the pumps.

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#### 3.1.4 Air Stripper Process Skid Status Check

The water from the untreated water storage tank (T-100) is pumped by the untreated water transfer pumps (P-100A & B) through the two iron filter tanks (LF-101 A&B) and the air stripper (AS-100). Record the air stripper process skid influent pump pressure from the gauge (PII) on the Treatment System Data Sheet. This gauge is located downstream of the untreated water transfer pumps on the north side of the air stripper process skid (all system gauge, meter, valve, and sample port locations are shown schematically in Sheet No. 9 of Appendix I). The influent pump pressure should generally range between 40 and 60 pounds per square inch (psi). An increase in influent pressure may indicate fouling of the iron filter or air stripper media. If the pump pressure exceeds 60 psi, shut the system down and, starting at the untreated water inlet to the pumps, check the system piping, iron filters, and air stripper media for obstructions. The level status indicator light on the system control panel associated with the air stripper (AS-100) is affected identically to those associated with the treated and untreated water storage tanks for low level, high level, and high-high level conditions (refer to Section 3.1.3). The level controls in the air stripper tower affect the system as follows:

- <u>Low level</u> A low level condition in the air stripper tower shuts down the liquid phase transfer pumps (P-101A & B) until the condition clears.
- <u>High level</u> A high level condition in the air stripper tower activates the liquid phase transfer pumps (P-101A & B) until the high level condition is cleared.
- <u>High-High level</u> A high-high level condition in the air stripper tower shuts down the system until the fluid level returns to normal. There will be no alarm generated due to this condition. A high-high level condition may indicate either a faulty liquid phase transfer pump or that the flow through the active treated water transfer pump is lower than the flow through the air stripper (see section 3.1.5). Influent flow rates that exceed effluent flow rates will automatically result in system shutdown.

The system is equipped with float-type flow indicators. These flow indicators can provide a general estimate of the flow rate. Flow indicator FI100, located on the air stripper process skid, can be used to obtain a general estimate of the flow through the air stripper. Record the flow rate from FI100 on the Treatment System Data Sheet. To more accurately determine the flow rate through the air stripper, use a stop watch and the flow totalizer FT100, located inline, just

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ahead of FI100, to measure the flow rate. Record the flow rate and flow totalizer reading on the Treatment System Data Sheet. The hundreds, thousands, and millions places are read from the digital totalizer display in the center of the meter. The tens and ones places are read from the red analog dial. The air stripper flow rate is controlled by a globe valve (V137) located below the flow indicator (FI100), between the iron filter vessels and the air stripper. If any adjustments to the flow rate through the air stripper are made using V137, record the flow rates from both the flow indicator (FI100) and flow totalizer (FT100) on a separate Treatment System Data Sheet both before and after adjustment. Note which flow rates are for before and after adjustment on the Treatment System Data Sheet. Inspect the acid pump (CP-100) and record the operating settings on the Treatment Plant Data Sheet. Check against the last inspection to confirm that the settings have not been inadvertently changed.

## 3.1.5 <u>Liquid Phase Process Skid Status Check</u>

The stripped water is pumped through the liquid phase activated carbon filter vessels (LF-100A&B) and into the treated water storage tank (T-102) by the liquid phase transfer pumps (P101A & B). Each carbon steel, down-flow filter vessel is lined with epoxy and contains approximately 80 cubic feet of activated carbon. Record the liquid phase transfer pump pressure from the gauge (PI2) on the Treatment System Data Sheet. The gauge is located on the north end of the liquid phase process skid. The liquid phase transfer pump pressures should generally range between 40 and 60 psi. If the pump pressures exceed 60 psi, shut the system down and, starting at the liquid phase transfer pumps, examine the system for obstructions, clogging or fouling in the liquid phase activated carbon filter vessels and associated piping.

Record the flow rate at flow indicator FI101 on the Treatment System Data Sheet. The flow rate of the liquid phase process skid, as indicated by FI101, should be equal or slightly greater than the rate at the air stripper process skid. If the flow rate of this skid is not equal or slightly greater than the rate at the air stripper process skid, the flow rate can be adjusted with the globe valve (V138) located below the flow indicator (FI101). Check the pressures before and after the recharge filters (CF-100, A, B, C, & D) using gauges PI3 and PI4, respectively, and record on the Treatment System Data Sheet. The pressure drop across the recharge filter system should

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not exceed 20 psi. If the pressure differential exceeds 20 psi, check the recharge filters for clogging and replace the filter cartridges, if necessary. The recharge filter replacement procedure is detailed in Section 7.1.

Check and record the onsite discharge flow totalizer (FT101) reading on the Treatment System Data Sheet and calculate the total volume transferred for the period from current and previous readings. Check and record the discharge valve settings on the Treatment System Data Sheet. The onsite discharge valve should be 100 percent open and the recharge line valve should be closed until system switchover. Subsequent to system switchover, the gate valve on the recharge well line (V201) will be opened and treated water will be discharged into the subsurface. If the recharge wells do not accept all the water discharging from the treated water tank and water starts accumulating on the recharge well line, the accumulated water will discharge to the surface (see Appendix C, Section 3 for additional details).

Procedures for sampling and analysis of the liquid phase activated carbon filters to assess contaminant removal are detailed in Section 3.1.8.1. Section 3.1.8.1 also describes the conditions, based on the results of the sampling and subsequent laboratory analysis of the preand post-filter liquids, which require liquid phase activated carbon changeout. Liquid phase activated carbon changeout procedures are briefly discussed in Section 3.1.8.1 and Section 3 of Appendix C. A detailed discussion of these procedures is included in the Liquid Phase Activated Carbon Changeout SOP in Appendix G.

## 3.1.6 <u>Vapor Phase Process Skid Status Check</u>

The vapor from the air stripper flows through an inline duct, vapor phase heater (H-100) that raises the vapor temperature approximately 40 degrees Fahrenheit. The vapor is then boosted by the vapor phase blower (B-101) through the dual vapor phase activated carbon filters (VF-100A&B). The treated air is then discharged to the atmosphere via the treated air duct and vent stack (refer to Sheet No. 20 of Appendix I). Each stainless steel, up-flow filter vessel contains approximately 60 cu. ft. of activated carbon. Although valves are placed on the duct work to permit the reconfiguration of the system to place either bed in the primary position, these valves

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have been rendered inactive, and should not be utilized. Blinding plates within the duct work were used to constrain the airflow to a single direction within the system. In this configuration vapor phase activated carbon filter VF-100A serves as the primary filter and VF-100B serves as the polishing filter. Open the condensate drain valve on the bottom of the treated air vent duct (refer to Sheet No. 20 of Appendix I), drain any condensate, and document on the Treatment System Data Sheet.

Procedures for sampling the vapor phase activated carbon filters to assess contaminant removal are detailed in Section 3.1.8.2. Section 3.1.8.2 also describes the conditions, based on the results of sampling and field analysis of the pre- and post-filter vapors, which require vapor phase activated carbon changeout. Vapor phase activated carbon changeout procedures are also described, in detail, in Section 3.1.8.2 and briefly discussed in Section 3 of Appendix C.

## 3.1.7 System Structural Integrity Check

The treatment system area will be inspected to evaluate the structural integrity of various major components. The concrete containment berm surrounding the treatment system and decontamination concrete pads will be inspected for any cracks, seams, or other failures. The acid storage tank (T-101) will be inspected for any evidence of leakage or other tank failure or acid vapor emissions within personnel breathing space. Equipment on the air stripper, vapor phase, and liquid phase process skids will be inspected for evidence of corrosion. If no problems are encountered on a particular item inspected, a "check" mark will be recorded on the appropriate "blank" on the Treatment System Data Sheet. If a problem is encountered, the nature of the problem and the corrective action taken will be recorded under the "Comments" section on the Treatment System Data Sheet.

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## 3.1.8 Treatment System Weekly Sampling/Activated Carbon Changeout

## 3.1.8.1 Liquid Phase Water Sampling/Activated Carbon Changeout

Collect water samples from the treatment system. The samples are collected at sample port SP105 (Sample UTT-1), located in the untreated water line just downstream of the untreated water storage tank, sample port SP106 (Sample BC-1), located between the two liquid phase activated carbon filter vessels, and sample port SP107 (Sample TT-1), located immediately downstream of the liquid phase activated carbon filter vessels. Record the sample collection times on the Treatment System Data Sheet.

Changeout of the primary liquid phase activated carbon filter vessel will be based on the weekly treatment system analytical results for the water samples collected from sample port SP106 (between the liquid phase activated carbon filter vessels) and sample port SP107 (immediately downstream of the liquid phase activated carbon filter vessels). If the analytical result exceeds 5 micrograms per liter (ug/l) for the SP106 sample, a recommendation that the treatment system be shut down for activated carbon changeout will be made to the Engineer. If the analytical result for the SP107 sample exceeds 5 ug/l, the system will be shut down immediately and the Engineer notified.

Subsequent to receipt of approval from the Engineer, changeout of the spent liquid phase activated carbon will be performed. The Engineer will be notified at least forty eight (48) hours prior to carbon removal. System operations will be suspended during the changeout. The primary filter vessel containing the spent activated carbon is isolated by closing valves and the polishing filter vessel is valved on-line. The spent activated carbon is removed from the filter vessel by gravity flow or compressed air assisted flow and fresh activated carbon is installed. After activated carbon installation, the newly filled filter vessel is valved into the polishing position. For example, to put filter LF-100A in the primary position and filter LF-100B in the polishing position, open valves V117, V122, V119, & V124; and shut valves V118, V120, V121, and V123 (refer to Sheet No. 9 in Appendix I). The spent activated carbon removed from the primary bed should be placed in DOT approved drums placed on palettes, properly labelled and stored temporarily on site. An example of an appropriate drum label, with all

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required information, is provided in Appendix A. Spent activated carbon will be periodically transported under waste manifest offsite to a facility previously approved by the EPA/TNRCC for disposal or regeneration. Spent activated carbon will be transported to the disposal/regeneration facility within 90 days of its removal from the liquid phase activated carbon filter vessels. If due to unusual circumstances, it is not possible to meet the 90 day deadline, a 30 day extension can be obtained by contacting the Industrial and Hazardous Waste Division at the TNRCC in Austin. The Engineer's and the TNRCC's Project Managers will be notified when such an extension is requested and provided documentation upon approval of the extension request.

Changeout of the liquid phase spent activated carbon will be considered as handling hazardous materials, and will be performed in a manner consistent with the Health and Safety Plan. Appropriate personal protective equipment should be used while performing the activated carbon changeout. A Huntingdon representative will be onsite to provide health and safety oversight. Liquid phase carbon changeout procedures are also discussed briefly in Appendix C, Section 3. The SOP for liquid phase carbon changeout is located in Appendix G.

## 3.1.8.2 <u>Vapor Phase Air Sampling/Activated Carbon Changeout</u>

Collect vapor phase activated carbon filter OVM readings from sample ports SP101 and SP103 located on the vapor phase process skid (refer to Sheet No. 9 of Appendix I for locations) and from the terminal end of the vent stack, below the vent cap (refer to Sheet No. 20 of Appendix I). OVM readings will be taken at least once per week to ensure that contaminant breakthrough has not occurred in the vapor phase activated carbon beds. The air samples should be collected using an OVM model 580 D photoionization detector. The instrument will be calibrated prior to each use in accordance with the OVM operational manual stored with the instrument. If calibration results exceed manufacturer's specifications by  $\pm$  5%, another OVM instrument will be obtained for the monitoring event. The vapor phase activated carbon filter OVM readings and calibration results should be recorded on the field Daily Activity Log and on the Treatment

System Data Sheet. An example of a Daily Activity Log is included in Appendix A. Monthly ambient air monitoring must be conducted as detailed in Section 9.8.

The Operator should convey vapor phase activated carbon filter OVM readings to the Engineer at the end of each week. If OVM readings at sample port SP103 (between the vapor phase activated carbon filters) exceed 30 parts per million by volume (ppmv), the Operator's Project Manager and the Engineer should be notified as soon as possible and activated carbon changeout should be recommended.

Shut down of the treatment system will be implemented if OVM readings at the vent stack exceed 30 ppmv. In this situation the Engineer and the Operator's Project Manager should be immediately informed of the OVM readings and the treatment system shut-down.

A 30 ppmv concentration of TCE is equivalent to an emission rate of 0.4 lbs./hr based on an air flow of approximately 600 cubic feet per minute. Therefore, as long as the concentration of TCE at the vent stack is less than 30 ppmv and the flow rate is less than 600 cubic feet per minute, the system meets the requirements of the TNRCC (formerly the Texas Air Control Board) air permit Standard Exemption Number 68. Alterations to treatment system components which impact the air flow rate through the system will require a re-evaluation of the air flow rate and the discharge criterion.

Subsequent to receipt of approval from the Engineer, changeout of the spent vapor phase activated carbon will be performed. The Engineer will be notified at least forty eight (48) hours prior to spent activated carbon removal. System operations will be suspended during the changeout, which will prevent any airflow through the vapor phase activated carbon filter vessel during changeout activities. Carbon changeout will be performed by removing the rectangular lid on the primary filter vessel and physically removing the carbon using a vacuum system equipped with a DOT approved depository drum and discharge air filters. The spent activated carbon removed from the primary filter vessel should be sealed in the DOT approved depository drums, placed on palettes, properly labelled (as detailed in Section 3.1.5), and stored temporarily

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on site. The polishing filter activated carbon will be transferred to the primary filter, and fresh activated carbon will be placed in the polishing filter. Spent carbon will be periodically transported under waste manifest off-site to a facility previously approved by the EPA/TNRCC for disposal or regeneration. Spent activated carbon will be transported to the disposal/regeneration facility within 90 days of its removal from the vapor phase activated carbon filter vessels. If due to unusual circumstances, it is not possible to meet the 90 day deadline, a 30 day extension can be obtained by contacting the Industrial and Hazardous Waste Division at the TNRCC in Austin. The Engineer's and the TNRCC's Project Managers will be notified when such an extension is requested and provided documentation upon approval of the extension request. Changeout of the spent activated carbon will be considered as handling hazardous materials, and will be performed in a manner consistent with the Health and Safety Plan. Vapor phase carbon changeout is also discussed in Section 3 of Appendix C.

#### 3.2 Iron Filter Backwash Waste

The iron filter tanks (LF-101A&B) backwash into the conical backwash settling tank (T-103) where the filtered iron settles out. The settled iron waste is drained into a 55-gallon drum (D-100) through the discharge valve at the bottom of the cone. The iron waste should be drained into a drum when a sludge level reaching 12 inches below the backwash tank influent line is measured. A sludge level measurement will be taken and recorded on the activity log quarterly. The Engineer will be notified of this measurement and the determined iron sludge level. This waste should not be drained into drums until a significant quantity has been accumulated, since placing the material in drums starts a 90-day accumulation time. All drummed sludge will be transported off site under waste manifest and disposed of as hazardous waste at a facility previously approved by the EPA/TNRCC. Any liquid supernatant may be transferred back into the system for treatment. The Engineer will be notified at least 48 hours prior to offsite transport.

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#### 4.0 SHUTDOWN PROCEDURES

The system is shutdown by turning the system "Control Power" on/off switch, located in the lower right hand corner of the system control panel in the MCC Building, to the "off" position. Alternatively, each individual component can be shutdown from the system control panel. Power to the individual components can also be shutdown at the breaker boxes located on the skids. Power to the extraction wells can be terminated by turning off the system "Control Panel" on/off switch, disengaging the three breakers (K11, K12, and K13) located on the right side of the breaker panel, or disengaging the breakers in the wellhead and/or remote control panels.

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#### 5.0 EMERGENCY PROCEDURES

Emergency response procedures are outlined in the Site Management and Health and Safety Plans. Malfunctioning components do not directly activate the alarm system; however, the high-high level controls for the treated water storage tank (T-100) and the untreated water storage tank (T-102) do activate the alarm and thus indirectly indicate malfunctioning of liquid transfer pumps. Malfunctioning components should be de-energized at the individual breaker boxes, and the redundant component should be engaged. The main power breaker for all site power is located on the exterior of the east side of the MCC Building adjacent to the electric meter. Site power ties into Houston Light and Power (HL&P) at the power pole adjacent to the middle of the east fence. All emergency contact numbers are located on the Site Contact List inside the MCC Building on the west wall of the structure. These contact numbers will be reviewed monthly and updated if necessary. A copy of the current Site Contact List is included in Appendix A.

The high-high level controls in the untreated and treated water storage tanks are tied into the main security system. A high-high level in the treated or untreated water tanks will trigger an alarm on Zone 7 or Zone 8 on the main security system control panel located in the MCC Building, respectively, as discussed in Section 3.1.3. The faulted zones will clear when the high-high fluid level is cleared. A high-high level condition in either tank will trigger an alarm signal to the Site Security Contractor (National Guardian) dispatch.

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#### 6.0 SITE SECURITY

The site is protected by perimeter and interior security systems. The perimeter security system is controlled by the main key pad located just inside the main gate. The perimeter alarm sensors (photoelectric beam-type) are activated and deactivated by entering the passcode number 18721 followed by the "ENT" key.

The interior security system monitors the MCC Building and is located on the interior wall by the door. The system is equipped with a 30 second delay to allow entry. To arm and disarm the interior security system alarm sensors, enter the passcode <u>8721</u>. If the time delay expires before the pass code is entered for either system and an alarm is generated, enter the appropriate passcode to silence the alarm. To cancel the alarm at the central station, call National Guardian (Site Security Contractor) at (713) 523-2545. Report that the alarm generated at system 7113-829 is an error and give pass code number 100.

In the event of a security emergency or a high-high level in the untreated or treated water storage tanks, National Guardian will notify the appropriate Operator personnel from the Site Contact List. The Site Contact List can be found on the west wall of the MCC building and a copy of the current list is included in Appendix A. A detailed description of the security system operation is contained in the Security System Operating Guide and Manufacturer's User's Guide included in Appendix B.

An Alarm Event Log is generated by the Site Security Contractor on a monthly basis which documents all alarm codes generated by the security system for that month. The Alarm Event Log is included in the Monthly Report submitted to the TNRCC's Oversight Engineer (refer to Section 10.1 for details of the Monthly Report and an example of the Alarm Event Log).

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#### 7.0 PREVENTIVE MAINTENANCE PROCEDURES

All pumps and blowers on the treatment system process skids have backup/redundant components, with the exception of the vapor phase blower (B-101). The MCC will automatically alternate between the backup/redundant components to ensure even wear and long life.

## 7.1 Recharge Filter Maintenance Procedures

The recharge filters (CF-100 A,B,C, & D) located on the south end of the liquid phase process skid should be inspected weekly. The primary (upstream) filters utilize 25-micron filter cartridges. The polishing filters utilize 5-micron filter cartridges. If the pressure drop across the filtration unit (read from pressure indicators PI3 and PI4) is greater than 20 psi, the primary filter cartridges will be replaced with the alternate filter cartridge set stored on site. If the pressure drop still persists, the secondary filter cartridges must also be replaced.

#### 7.2 Freeze Protection Procedures

The following freeze protection procedures should be implemented if prolonged freezing temperatures are anticipated.

- 1. Turn the system "Control Power" switch to the "off" position at the system control panel;
- 2. Close valves to and from pumps P-100 A & B, and remove 1/8-inch plugs at bottom of impeller casings;
- 3. As above for pumps P-101A and B;
- 4. As above for pumps P-102A and B;
- 5. Close valve V137 (located before FT100);
- 6. Remove 1-1/2-inch plug below V137, drain and replace;
- 7. Crack PVC union located between LS-104 and LS-105 at air stripper tower;
- 8. Open SP100, drain and close (at FI100);
- 9. Open SP105, drain and close (at FI101); and
- 10. Close V117 and V120 at liquid phase activated carbon filter vessels.

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#### 7.3 Hurricane Precautions

The treatment system hurricane precautions are as follows:

- 1. Fill all storage tanks and empty drums with water.
- 2. Secure all loose items (tools, etc.) in MCC building.
- 3. Shut down main breaker at HL&P meter.
- 4. Depending upon forecasted strength of storm and available time, determine if the air stripper high duct work and acid vent line need to be dismantled.

## 7.4 Well Vault Inspection and Maintenance Procedures

The well vaults associated with the extraction and recharge wells at the site are susceptible to water accumulation, as the result of infiltration resulting from rainfall events or from leaking well seals on active recharge wells. In addition, some extraction wells vaults house electrical control panels for the submersible pumps. These controls are enclosed in NEMA 6X enclosures rated for temporary water submersion service. However, to prevent equipment damage and ensure personnel safety, the well vaults and their internal components must be inspected and maintained on a monthly basis as part of the monthly well water level/flow rate/flow totalizer measurements detailed in Section 9.2. In addition, any rainwater which accumulates in the vaults must be removed prior to the water rising sufficiently in the vault to make contact with the control panel enclosures in the extraction well vaults or, in the case of the recharge well vaults, prior to the vault overflowing and flooding an adjacent extraction well vault. The Well Vault Inspection and Maintenance Standard Operating Procedure (SOP) describes procedures for monthly well vault access, water removal and disposal, and vault maintenance, including maintenance of the pump control panel enclosures. A copy of the SOP is included in Appendix G. The SOP also includes procedures for non-scheduled inspections after heavy rainfall events which occur between scheduled monthly events and inspection/response procedures to be implemented should the scheduled or non-scheduled inspections indicate potential emergency conditions in the vaults due to vault flooding or moisture damage. These emergency condition

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inspection/response procedures include, pump power shut-off, pump control panel access, inspection, and repair/replacement procedures.

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## 8.0 TROUBLESHOOTING/REPAIR

Troubleshooting/repair activities are summarized in Table 8-1. The operator will perform these activities primarily as a diagnostic. After identifying the general area of any problem, the required repairs will be performed. The operator will notify the Engineer of any repairs required, solutions attempted, or other non-routine maintenance activities prior to the activity so that the Engineer may be present for oversight. Problems identified with the treatment system, solutions attempted, and results will be included in the Monthly Reports (refer to Section 10.1).

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# TABLE 8-1 TROUBLE SHOOTING/PROBLEM SOLVING

## ITS Site Houston, Texas

PROBLEM	SOLUTION
System shut down	<ul> <li>Check water levels in storage tanks (T-100 &amp; T-102)</li> <li>Check system control panel level status indicator lights</li> <li>System control panel level status indicator lights indicate false level, check level switches - gently tap level switches</li> </ul>
Pressure drop between recharge filters greater than 20 psi	Replace recharge filter primary and, if necessary, polishing filter cartridges,
Transfer pumps continue to run when system should be shut down	Check system control panel level status indicator lights - gently tap level switches
Wells not pumping	<ul> <li>Check water level in untreated water storage tank (T-100)</li> <li>Check system control panel level status indicator lights - if false high level, gently tap level switch</li> <li>Check breakers in MCC Building - press reset buttons</li> </ul>
Pressure gauge on liquid phase process skid fluctuates greatly - air bubbles in flow rate sight glass	Check system control panel level status indicator lights - if low level in air stripper (AS-100), decrease flow rate of liquid phase transfer pumps (P-101A&B)
Air stripper tower high level status indicator light on	Increase flow rate of liquid phase transfer pumps (P-101A&B)

#### 9.0 SCHEDULED ACTIVITIES

Treatment phase sampling, monitoring, and system inspection will be conducted in accordance with the site Groundwater Sampling and Analysis Plan. Treatment phase activities are discussed below in Sections 9.1 through 9.9.

## 9.1 Treatment System Sampling

Three water samples are collected from the treatment system once per week in accordance with the site Groundwater Sampling and Analysis Plan. The samples are collected at sample ports SP105, SP106, and SP107, as described in Section 3.1.8.1.

#### 9.2 Water Level, Flow Totalizer, and Flow Rate Measurements

Water level and flow rate measurements and flow totalizer readings from all operating extraction and recharge wells will be collected on at least a monthly basis. In addition, water levels in all inactive extraction and recharge wells and monitoring wells will be collected in these monthly events. All measurements will be recorded on a Well Data Sheet, an example of which is included in Appendix A. Blank Well Data Sheets are kept in the MCC building. The Well Vault Inspection and Maintenance SOP in Appendix G describes the procedures for inspecting and accessing the vaults, removal and disposal of accumulated water, and inspection and maintenance of the pump control panel enclosures and well seals (if applicable) during these monthly events. Upon accessing each vault, the Operator will monitor the air space inside the well vault with a OVM model 580 D photoionization detector, calibrated as described in Section 3.1.8.2. OVM readings are recorded on the Well Data Sheet and are used to establish appropriate personal protective equipment (PPE) requirements, in accordance with the guidelines described in the Site Health and Safety Plan, and to monitor for well seal leaks. Water level measurement ports in the wellhead seals are accessed with a 1/2-inch box wrench or crescent wrench. Water levels should be collected from all site wells on a minimum of once per month. The water levels will be collected with an electronic water level indicator tape (E-line) using the procedures outlined in the Well Water Level Measurement SOP, included in Appendix G.

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The extraction and recharge wells are equipped with flow totalizers. The totalizers are read once per month concurrent with the water level measurements. The flow volume to the nearest 10 gallons can be read directly off the digital display. Gallons and tenths of gallons are estimated using the analog dial in the meter. The flow rate should be estimated, using a stop watch, by timing the flow through the flow totalizer. Since it may require excessive time to measure the flow rate for some active extraction wells due to prolonged recovery intervals at those wells, failure to obtain measurements will be reported to the Engineer and TNRCC and the measurement will be made at the next scheduled measuring event.

## 9.3 Extraction Piping Secondary Containment Inspection

The Operator is responsible, on a monthly basis, for measuring the depth to water in the extraction piping secondary containment piping inspection ports and removing any excess fluids noted in the secondary containment piping system. This should be done in conjunction with the third weekly site visit each month. The Extraction Piping Secondary Containment Inspection and Pumpout SOP (Appendix G) describes procedures for monitoring and pumping out any waters identified in the extraction piping secondary containment.

The fluid level measurements should be collected prior to pumping. In addition, OVM readings should also be collected immediately upon opening the containment piping inspection ports. All pumped water must be contained and transferred to the decontamination pad sump. The OVM readings, the water levels in the containment piping inspection ports, and the total volume of water removed from the piping should be recorded on an Extraction Piping Secondary Containment Inspection Sheet, available in the MCC Building. An example of this sheet is included in Appendix A. The dates and volumes of water removal from the extraction piping secondary containment for each month will be included in Monthly Reports (refer to Section 10.1 and the example Monthly Report in Appendix H).

## 9.4 Extraction and Recharge Piping Mass Balances

On a monthly basis, the Operator will inspect vicinities of the extraction piping and recharge piping alignments and perform an extraction piping mass balance. This should be done in

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conjunction with the monthly water level, flow totalizer, and flow rate measurement event (refer to Section 9.2) during the third week of each month. The mass balance evaluation should be performed by shutting down the extraction wells, collecting flow totalizer readings from all the extraction wells at each respective vault and from the flow totalizer (FT102) upstream of the untreated water storage tank. Record all readings on the Well Data Sheet. Consecutive monthly readings from each well's flow totalizer should then be used to calculate the total volume of water pumped from the extraction wells. This volume is then compared to the monthly flow volume registered at FT102 and the mass balance error evaluated. If the mass balance error is greater than the uncertainty (error) associated with measurement (2.5% of the FT102 total), it may be an indication that the extraction piping is leaking. However, field observations such as the volume of water pumped from the extraction piping secondary containment should also be taken into consideration while making decisions about extraction system integrity. Extraction well pumps will be shut off immediately if the mass balance error exceeds the error criterion or if the secondary containment water level is unusually high or increasing in the absence of a precipitation event. The results of the extraction piping mass balance evaluation should be transmitted to the Engineer by the fifth day of the following month.

Once system switchover has occurred, the Operator will perform a recharge piping mass balance in conjunction with each monthly extraction piping mass balance discussed above. The recharge piping mass balance should be performed by shutting down the treated water transfer pumps (P-102 A&B), collecting flow totalizer readings from all recharge wells at each respective vault, and from the flow totalizer (FT101) located on the recharge well feed line, downstream of the recharge filters (CF-100A, B, C, & D). Record all readings on the Well Data Sheet. Consecutive monthly readings should then be used to calculate the total volume of water pumped to the recharge wells. This volume is then compared to the monthly flow registered at FT101 and the mass balance error evaluated. If the mass balance error is greater than the uncertainty (error) associated with its measurement (based on flow totalizer accuracies), it may be an indication that the recharge piping is leaking and additional evaluation of the piping system (i.e. pressure testing) should be performed to confirm and identify any piping leaks. The result of

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the recharge piping mass balance evaluation should be reported to the Engineer by the fifth day of the following month along with the results of the extraction piping mass balance.

In the event that either an extraction or recharge piping system leak becomes evident, the Operator shall notify the Operator's Project Manager and the Oversight Engineer and discontinue use of those segments of the piping system that are potentially leaking.

## 9.5 Active Extraction Well Sampling

All pumping extraction wells should be sampled biweekly (twice per month) for the first six months of treatment and monthly thereafter. After water level measurements and flow totalizer readings have been recorded, the gate valve downstream of the flow totalizer should be used to reduce the flow rate to approximately 0.5 gallons per minute. Open the sample port gate valve and purge a sufficient quantity of water to clear the sample port piping. Collect all purged water in a container and transfer it to the stormwater/spill drainage sump located at the treatment system. Collect the groundwater sample directly from the sample port located inside the well vault. Return the downstream gate valve to its original operating position after completing sampling activities. An SOP for Extraction Well Sampling is included in Appendix G.

#### 9.6 Shut-In Quarterly Well Sampling

Once every quarter the extraction pumps and the treatment system will be shut down for two days. Groundwater samples will be collected from each of the extraction wells by activating each pump individually at the well control panel and collecting a sample from the sample port. Samples will be collected as described in Section 9.5. In addition, samples will be collected from ten monitoring wells selected by the Engineer in accordance with the purging and sampling procedures detailed in the Site Groundwater Sampling and Analysis Plan which is kept on file in the MCC building. No recharge wells will be sampled in this event.

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## 9.7 Annual Well Sampling

Once every year, groundwater samples will be collected from all site wells (extraction, recharge, and monitoring). This sampling event will coincide with one of the quarterly sampling events, and will follow the same sampling procedures as the quarterly sampling events.

## 9.8 Ambient Air Monitoring

Once per month ambient air samples will be collected from the site. One sample will be collected from the Treatment System Pad, in the immediate vicinity of the vapor phase process skid, one sample will be collected from a downwind location, and one sample will be collected from an upwind location. All three samples will be collected from within the breathing zone. Sampling locations will not be the same for all sampling events. Instead, the predominant wind direction at the time of sampling will be used to determine the sampling locations. The ambient air samples will be collected using charcoal sorbent tubes and personnel air monitoring pumps. The ambient air sample volumes should be approximately 29 liters. Each pump will be triple calibrated prior to collection of each sample and all pump calibration and sampling data will be recorded on an Ambient Air Monitoring Data Sheet/Checklist, and example of which is included in Appendix A. Calibration and sample volume calculation equations are provided on the Ambient Air Monitoring Data Sheet/Checklist.

9.9 Water and Ambient Air Analytical Parameters and Quality Control Samples Water samples will be collected for laboratory analysis from three locations at the treatment system (refer to Section 3.1.8.1) and from the appropriate site wells (refer to Sections 9.5, 9.6, and 9.7). All water samples collected from the treatment plant and from the site wells should be analyzed in accordance with the Site QA/QC Manual for trichloroethane (TCE) by U.S. Environmental Protection Agency (EPA) Method 8010.

Three ambient air samples will be collected for laboratory analysis from the treatment system area on a monthly basis (refer to Section 9.8). The ambient air samples should be analyzed by NIOSH Method 1003 for at least the following chlorinated compounds:

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- Trichlorethene;
- 1,1-Dichloroethene;
- Trans 1,2-Dichloroethene
- Tetrachloroethene;
- 1,1,1-Trichloroethane;
- 1,1,2-Trichloroethane;
- 1,1-Dichloroethane;

The halogenated volatile organic compounds listed above have been identified in the groundwater at the site (source: "Remedial Design Sampling Report: Industrial Transformers Superfund Site", Radian Corporation, 1991).

The following QA/QC Samples should be collected for each sampling event:

- Trip Blanks One trip blank for each groundwater/treatment system sampling event.

  One trip blank should be collected for each ambient air sampling event;
- Field Blanks One field blank per sampling event; and
- Duplicate Samples One duplicate sample per each lot or partial lot of 20 samples for the Monthly, Quarterly, and Annual sampling events.

Additionally, one equipment blank should be collected for sampling events which involve the use of non dedicated sampling equipment.

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#### 10.0 REPORTING

## 10.1 Monthly Reporting

Monthly reports must be prepared and submitted to the TNRCC's Oversight Engineer and EPA/TNRCC within 30 days of receiving monthly active extraction well sampling event (refer to Section 9.5) analytical results. The Monthly Report must include the following documentation of information obtained from the previous month's activities at the site:

- Groundwater treatment system performance;
- Offsite disposal activities;
- System upsets, problems, and down-time;
- Routine maintenance activities performed;
- Dates and volumes of water removal from extraction piping secondary containment;
- Extraction and recharge well performance;
- Ambient air monitoring results;
- Vapor phase activated carbon filter OVM monitoring results;
- Extraction and recharge piping mass balance evaluation results;
- Extraction and recharge well specific capacity evaluation results;
- Potentiometric surface maps;
- Copies of the completed weekly Treatment System Data Sheets;
- Alarm Event Logs;
- Site Entrance/Exit Logs, and
- Copies of analytical laboratory reports including chain-of-custody documentation.

An example of a completed Monthly Report is included in Appendix J (to conserve space, the example report does not include analytical laboratory reports).

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## 10.2 Quarterly Reporting

Quarterly Reports must be prepared and submitted to the TNRCC's Oversight Engineer and the TNRCC/EPA within 30 days of receiving shut-in quarterly well sampling event (refer to Section 9.6) analytical results. The Quarterly Report must include the following documentation of information obtained during the quarterly sampling event:

- Extraction and recharge well performance;
- · Monitoring well monitoring results; and
- Copies of the analytical laboratory reports and chain-of-custody documentation from the quarterly event.

An example of a completed Quarterly Report is included in Appendix H (to conserve space, the example report does not include analytical laboratory reports).

## 10.3 Annual Reporting

Annual reports must be prepared and submitted to the TNRCC's Oversight Engineer and the TNRCC/EPA within 30 days of receiving the annual well sampling event (refer to Section 9.7) analytical results. The Annual Report documents the performance of the treatment system and the remediation project for the previous year. Annual reports are large, complex documents and may vary in exact content from year to year. As such, no example Annual Reports are provided.

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